

GENERAL NOTES:

1. PANORAMAH SERIES 2/3 TRACKS HIGH IMPACT SLIDING GLASS DOOR, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. PANORAMAH SERIES 2/3 TRACKS HIGH IMPACT SLIDING GLASS DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. (H.V.H.Z) AND OUT OF IT (N.H.V.H.Z)
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 AND 1609 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 3 BELOW.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 3 BELOW.
- IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. A DURATION FACTOR $C_D=1.60$ WAS USED TO VERIFY FASTENERS IN WOOD, PER N.D.S. 2018.
- THIS DOOR'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER BLACKWATER TESTING, INC. LAB REPORT # BT-JOF-18-001, AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 OF THE FLORIDA BUILDING CODE. GLASS IS VERIFIED PER ASTM E-1300-09a STANDARD, PER SECTION 2404.1 OF THE FLORIDA BUILDING CODE.
2. REMAINING COMPONENTS FOR THIS SLIDING GLASS DOOR SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS AND COMPONENTS ON SHEETS 2, 3, 4 & 5 RESPECTIVELY OF THIS DRAWING.
3. MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR PRODUCT IS + 50.0, -55.0 p.s.f. SEE DOOR ELEVATIONS ON SHEETS 6 AND 7 FOR QUALIFIED CONFIGURATIONS.
4. THIS PANORAMAH SERIES 2/3 TRACKS HIGH IMPACT SLIDING GLASS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
5. THIS PANORAMAH SERIES 2/3 TRACKS HIGH IMPACT SLIDING GLASS DOOR IS APPROVED FOR AIR AND WATER INFILTRATION.
6. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
7. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, G=0.55. AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 AND 2411.3.3.4 OF THE FLORIDA BUILDING CODE.
- (7.1) 2X WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF DOOR FRAME ANCHORAGE. DOOR FRAME MUST BE SEPARATELY ANCHORED TO 2X WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.
- (7.2) 1X WOOD BUCK (OR ANY WOOD BUCK LESS THAN 2X) MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. DOOR FRAME ANCHOR SHALL BE USED TO ATTACH 1X WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU BOTH DOOR FRAME & 1X WOOD BUCK INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.

8. ANCHOR NOTES:

- EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH (SEE SCHEDULE ON SHEETS 22, 23)
- (A) TO EXISTING POURED CONCRETE: (Min. $f'_c = 3.192$ ksi), MIN. EDGE DISTANCE AS NOTED.
- (A.1) AT HEADER & JAMBS: $1/4"$ TAPCON OR ULTRACON W/ $1\ 1/2"$ MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX, INC OR DE WALT, RESPECTIVELY. (COMPONENT 44), THRU $1"$ P.T. WOOD BUCK OR DIRECTLY TO EXISTING CONCRETE (IF 1X BUCK IS NOT NEEDED.) MIN. EDGE DISTANCE IS $2\ 1/2"$.
- (A.2) AT SILL: $1/2"$ CONFLEX LARGE DIAMETER MASONRY SCREW W/ $3"$ MIN. EMBEDMENT, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS (COMPONENT 44A). THRU COMPONENT 46 INTO CONCRETE. MIN. EDGE DISTANCE IS $2\ 1/2"$.
- (B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK: MIN. EDGE DISTANCE = $2\ 1/2"$. USE AT JAMBS.
- $1/4"$ TAPCON OR ULTRACON W/ $1\ 1/4"$ MIN. EMBEDMENT, AS MANUFAC. BY ITW BUILDEX, INC. OR DE WALT, RESPECTIVELY (COMPONENT 44), THRU $1"$ P.T. WOOD BUCK OR DIRECTLY TO BLOCK. (IF 1X BLOCK NOT NEEDED) MIN. EDGE DISTANCE IS $1"$.
- (C) TO EXISTING (2) 2x P.T. WOOD BUCK: MIN. EDGE DISTANCE AS NOTED.
- (C.1) AT HEAD OR JAMBS:
- $\#14 \times 3\ 1/8"$ WOOD SCREW A2 SS W/ MIN $1\ 1/2"$ MIN. EMBEDMENT, (COMPONENT 32).
- (C.2) AT SILL: $1/2"$ LAG SCREWS W/ $3"$ MIN. EMBEDMENT ($F_y=45$ ksi), THRU COMPONENT 46 INTO (2) 2X WOOD BUCK MIN. EDGE DISTANCE IS $2"$ (COMPONENT 32A).
- (D) TO EXISTING MIN. $1/8"$ THICK ALUMINUM MEMBER (6063-T5 ALLOY): MIN. EDGE DISTANCE = $1/2"$.
- $\#1/4"$ – 14 TEK SCREW, FULLY EMBEDDED PLUS 3 THREADS BEYOND, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 45). USE ONLY AT JAMBS & HEAD.
- (E) TO EXISTING MIN. 12 GAGE STEEL MEMBER (ASTM A-500, A-653 OR A-36): MIN. EDGE DISTANCE = $1/2"$.
- $\#1/4"$ – 14 TEK SCREW, FULLY EMBEDDED PLUS 3 THREADS BEYOND, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 45). USE ONLY AT JAMBS & HEAD.
9. BEARING SHIM ($1/4"$ MAX.) MAY BE ALLOWED AT DOOR FRAME ANCHOR LOCATION AS PER DETAILS ON THIS DRAWING.
10. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.
11. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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TILTECO INC.

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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

PANORAMAH SERIES 2 / 3 TRACKS SLIDING GLASS DOOR						Y.M. DRAWN BY:
 Rua D. Marcos da Cruz 1240 4455-482 Perafita, Matosinhos, Portugal Tel. +351 229 996 311/2/3 Fax. + 351 229 966 909 www.jofebar.com jofebar@jofebar.com						07/7/2023 DATE:
						23-076 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 1 OF 23
1	OLD 20-266	07/7/23	3	-	-	
2	-	-	4	-	-	

BILL OF MATERIALS				
COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL	PART #
(1)	EXTERIOR PROFILE FOR FIXED FRAME	SEE SHEET 3	6063-T5 ALLOY	101001
(2)	INTERIOR PROFILE FOR FIXED FRAME	SEE SHEET 3	6063-T5 ALLOY	101211
(3)	INTERIOR PROFILE FOR FIXED FRAME CAP	SEE SHEET 3	6063-T5 ALLOY	101171
(4)	GLASS U CHANNEL	SEE SHEET 3	6063-T5 ALLOY	101005
(5)	GLASS U CHANNEL HANDLE PROFILE	SEE SHEET 3	6063-T5 ALLOY	101008
(6)	HANDLE PROFILE WITH FLAP	SEE SHEET 3	6063-T5 ALLOY	10212
(7)	REINFORCED CENTRAL MULLION	SEE SHEET 3	6063-T5 ALLOY	101010
(8)	LOW FRAME CAP	SEE SHEET 3	6063-T5 ALLOY	101015
(9)	BOTTOM TRACK WITH BEARINGS	SEE SHEET 3	6063-T5 ALLOY	101022
(10)	GLASS U CHANNEL FOR BRASS	SEE SHEET 3	6063-T5 ALLOY	101026
(11)	WALL STOP PROFILE	SEE SHEET 3	6063-T5 ALLOY	101027
(12)	HIGH FRAME CAP	SEE SHEET 3	6063-T5 ALLOY	101176
(13)	PROFILE FOR STEEL REINFORCED CENTRAL MULLION 110x8	SEE SHEET 3	6063-T5 ALLOY	101189
(14)	PROFILE FOR INVERTED STEEL REINF. CENTRAL MULLION 110x8	SEE SHEET 3	6063-T5 ALLOY	101190
(15)	POLYAMIDE FOR CENTRAL MULLIONS	SEE SHEET 3	PA 6.6 25% GLASS REINF.	107004
(16)	POLYAMIDE FOR HANDLE U CHANNEL	SEE SHEET 3	PA 6.6 25% GLASS REINF.	107037
(17)	POLYAMIDE FOR HANDLE	SEE SHEET 3	PA 6.6 25% GLASS REINF.	107005
(18)	POLYAMIDE FOR LOCKING POINT SYSTEM	SEE SHEET 3	PA 6.6 25% GLASS REINF.	107029
(19)	POLYAMIDE FOR FRAME	SEE SHEET 4	PA 6.6 25% GLASS REINF.	107012
(20)	GASKET FOR FIXED PROFILE	SEE SHEET 4	EPDM	502001
(21)	7x7mm PILE WEATHER STRIPS	SEE SHEET 4	POLYESTER MOHAIR	501001
(22)	ALIGNMENT SET SQUARE-25,2x25,5x7,(1)	SEE SHEET 4	STAINLESS STEEL	202001.04....
(23)	QUIAK FASTENING SET-SQUARE (MONTICELLI 460.8)	SEE SHEET 4	STAINLESS STEEL	202001.01....
(24)	TOP AND BOTTOM COVER-HANDLE	SEE SHEET 4	NYLON	208003
(25)	BOTTOM COVER- CENTRAL MULLION	SEE SHEET 4	NYLON	-
(26)	TOP COVER- CENTRAL MULLION	SEE SHEET 4	NYLON	-
(27)	BRASS BAR WITH 10x0.0787" SECTION	SEE SHEET 4	BRASS	ASBARRALATAO
(28)	ONE POINT LATCH FOR INV. CENTRAL MULLION (BY JOFEBAR)	SEE SHEET 4	ALUMINUM 6060-T5	201066
(29)	MULTI POINT LOCK FOR HANDLE DEV. & MANUFAC. (BY JOFEBAR)	SEE SHEET 4	-	201229
(30)	STAINLESS STEEL REINFORCEMENT	SEE SHEET 4	SS AISI 304	-
(32)	#14 x 3 1/8" WOOD SCREW A2 SS	SEE SHEET 4	STAINLESS STEEL Fy= 80 ksi	-
(32A)	1/2" LAG SCREW	SEE NOTE 8/I	2 1/2" MIN. PENETRATION GALV. STEEL FY=45 ksi. PER NDS 2015 SPECS	-
(33)	# 8 x 1 1/4" TIREFOND SCREW A2 SS	SEE SHEET 4	STEEL	-
(34)	WASHER DIN125-1A	SEE SHEET 4	STEEL	-
(35)	PRON® DIST. RAPID BLOCK RB601/RB603	SEE SHEET 4	STEEL	-
(36)	PIN	SEE SHEET 4	STAINLESS STEEL	ACPPERNORECART
(37)	BEARINGS	SEE SHEET 4	STAINLESS STEEL	ACPROLAM
(38)	SPACING WASHER	SEE SHEET 4	BRASS	ACPANILHAS
(39)	INSULATED GLASS SPACER	SEE SHEET 4	ALUM. ALLOY 3003-H14	-
(40)	STRUCTURAL SILICONE FOR GLASS SIKA AS-66	SEE SHEET 4	SILICONE	-
(41)	SETTING BLOCK	SEE SHEET 4	E.P.D.M.	-
(42)	FIXED PANEL SHIM	SEE SHEET 4	E.P.D.M.	-
(43)	FIXED PANEL CLIP	SEE SHEET 4	STAINLESS STEEL	-
(44)	1/4 "Ø TAPCON OR ULTRA CON ANCHOR	SEE NOTE 8/I	ULTRASHIELD OR CLIMASHIELD COATED STEEL TAPCON Fy=100 ksi, Fu=125 ksi STALGUARD COATED STEEL ULTRA CON Fy= 155 ksi, Fu= 177 ksi	-
(44A)	1/2 " Ø CONFLEX ANCHOR	SEE NOTE 8/I	BY ELCO CONSTRUCTION PRODUCTS, GRADE 5 STEEL, SILVER STALGARD COATED	-
(45)	1/4 " - 14 TEK SCREW	SEE NOTE 8/I	CLIMASEAL COATED STEEL ASTM A-449 Fu=152 ksi, Fy=134 ksi	-
(46)	SUPPORT DRAINAGE SYSTEM	SEE SHEET 4	POLYURETHANE RIGID FOAM (PU) 500 kg/m3 DENSITY (By PUREN gmbh)	-

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
7/2023
P.E. SEAL/SIGNATURE/DATE

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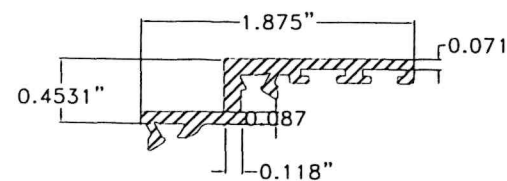
PANORAMAH SERIES 2 / 3 TRACKS
SLIDING GLASS DOOR

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metal works

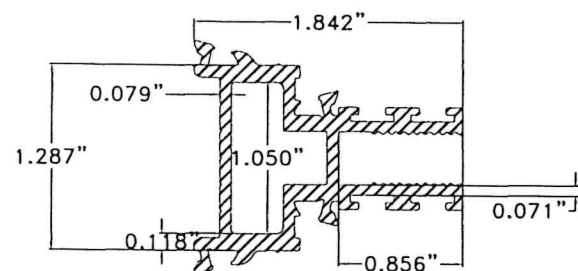
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Y.M.
DRAWN BY:
07/7/2023
DATE:
23-076
DRAWING No.
SHEET 2 OF 23



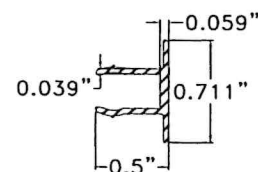
EXTERIOR PROFILE FOR
FIXED FRAME

1



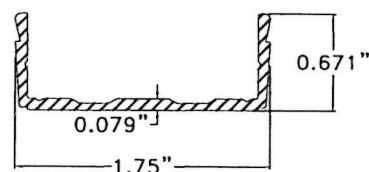
INTERIOR PROFILE
FOR FIXED FRAME

2



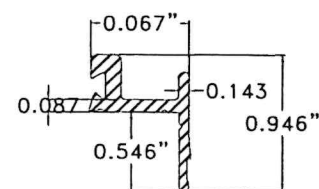
INTERIOR PROFILE
FOR FIXED FRAME CAP

3



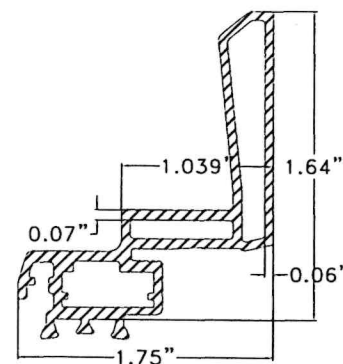
GLASS U CHANNEL

4



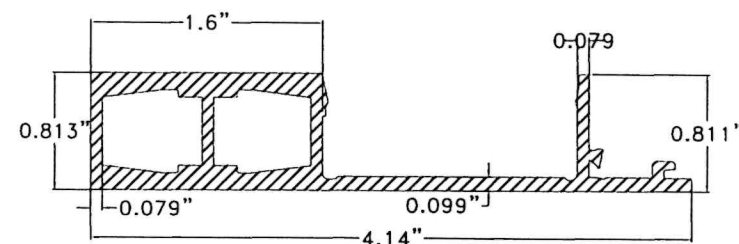
GLASS U CHANNEL
HANDLE PROFILE

5



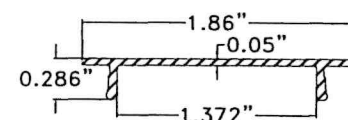
HANDLE PROFILE
WITH FLAP

6



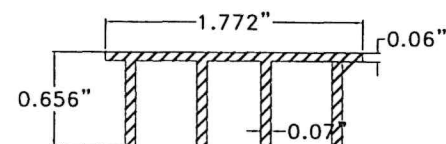
REINFORCED CENTRAL
MULLION

7



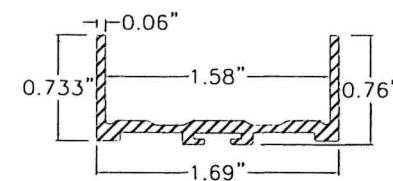
LOW FRAME CAP

8



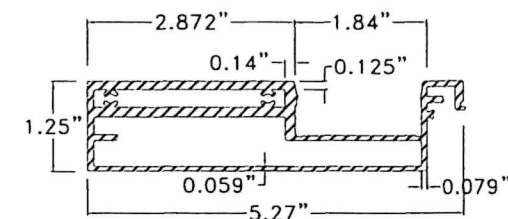
BOTTOM TRACK
WITH BEARINGS

9



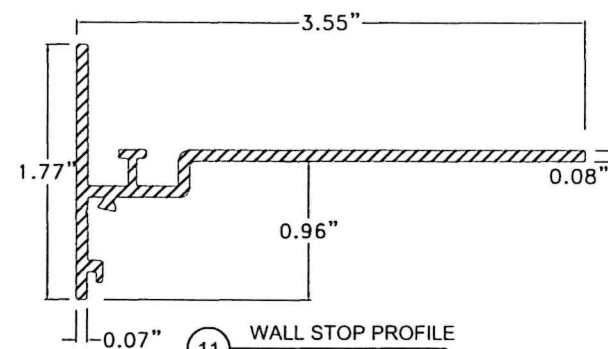
GLASS U CHANNEL
FOR BRASS

10



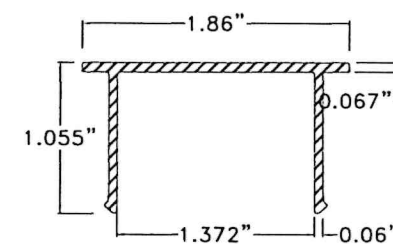
PROFILE FOR INVERTED STEEL
REINFORCED CENTRAL MULLION

14



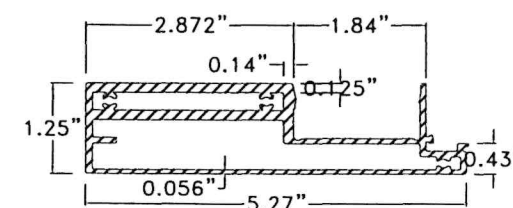
WALL STOP PROFILE

11



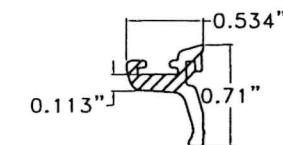
HIGH FRAME CAP

12



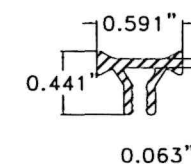
PROFILE FOR STEEL
REINFORCED CENTRAL MULLION

13



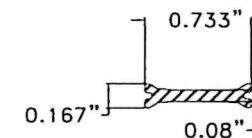
POLYAMIDE FOR
CENTRAL MULLIONS

15



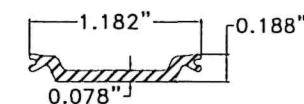
POLYAMIDE FOR
HANDLE U CHANNEL

16



POLYAMIDE FOR HANDLE

17

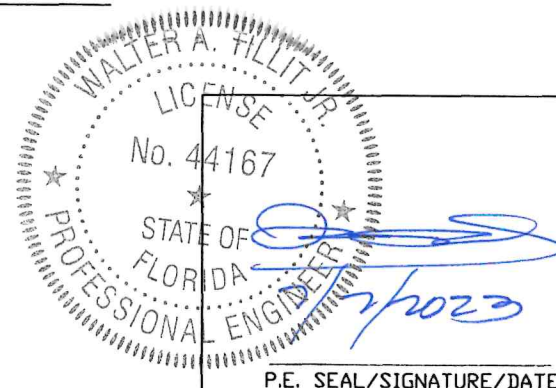


POLYAMIDE FOR LOCKING
POINT SYSTEM

18

COMPONENTS

NTS



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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SLIDING GLASS DOOR

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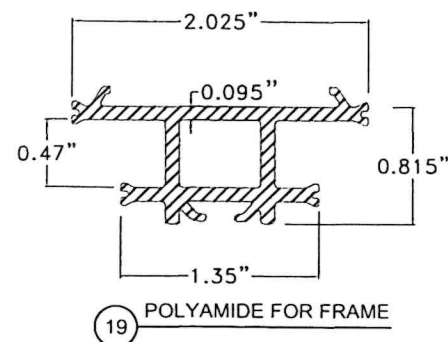
Y.M.
DRAWN BY:

07/7/2023
DATE:

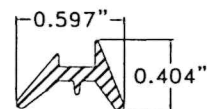
23-076
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

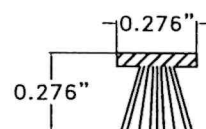
SHEET 3 OF 23



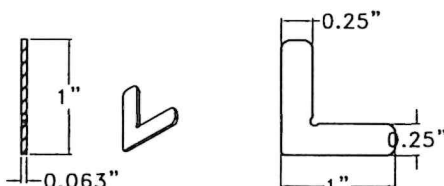
19 POLYAMIDE FOR FRAME



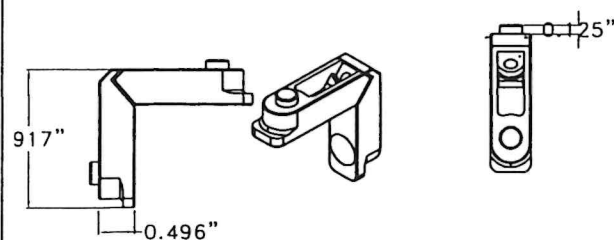
20 GASKET FOR FIXED PROFILE



21 PILE WEATHER STRIPS



22 ALIGNMENT SET SQUARE

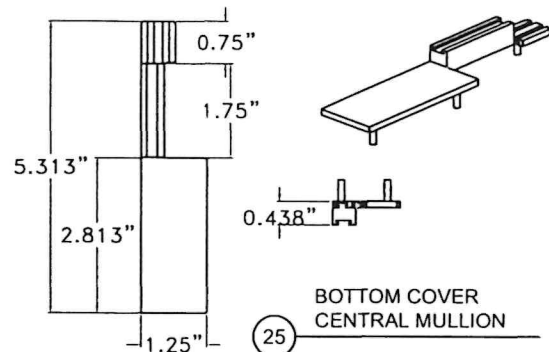


23 QUIAK FASTENING SET-SQUARE

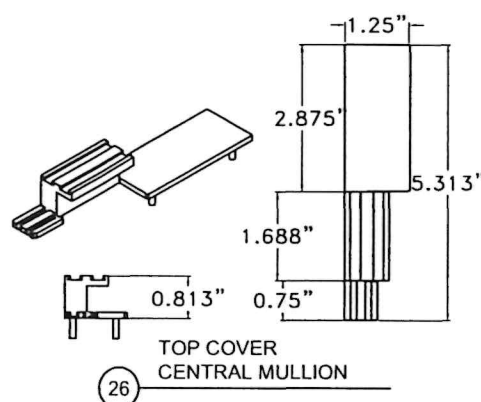
**COMPONENTS
CONT'D.**
N.T.S.



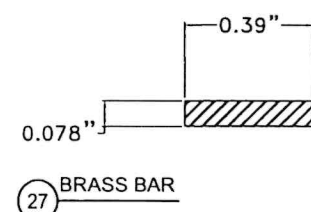
24 TOP & BOTTOM
COVER HANDLE



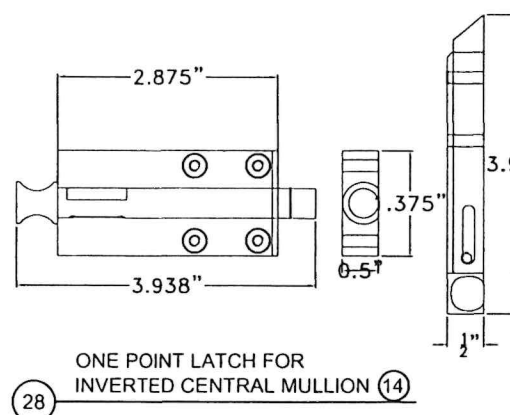
25 BOTTOM COVER
CENTRAL MULLION



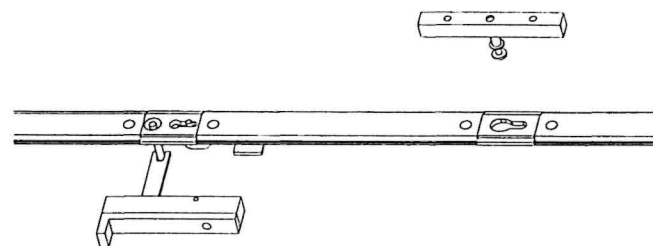
26 TOP COVER
CENTRAL MULLION



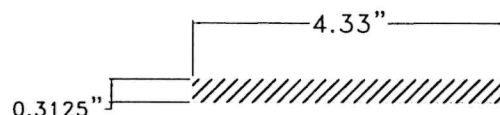
27 BRASS BAR



28 ONE POINT LATCH FOR
INVERTED CENTRAL MULLION (14)



29 MULTI POINT LATCH FOR HANDLE
(SEE SHEET 15)



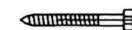
30 STAINLESS STEEL REINFORCEMENT



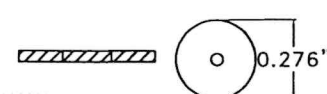
31 #12x2" WOOD SCREW A2 SS



32 #12x3 3/8" WOOD SCREW A2 SS

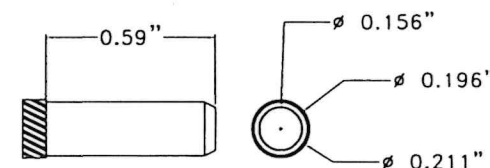


33 #8x1 1/4" TIREFOND SCREW A2 SS



34 WASHER DIN125-1A

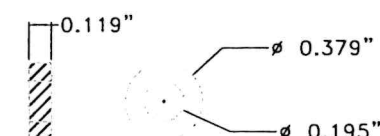
35 PRON® DIST. RAPID BLOCK



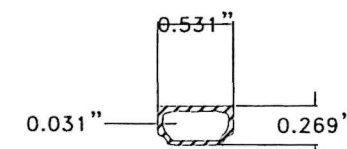
36 PIN



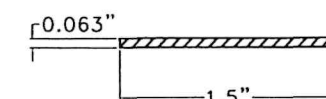
37 BEARINGS



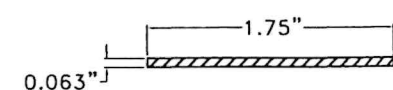
38 SPACING WASHER



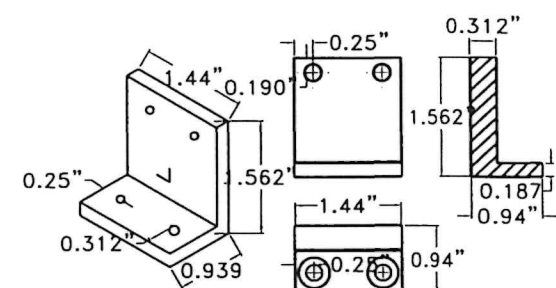
39 INSULATED GLASS SPACER



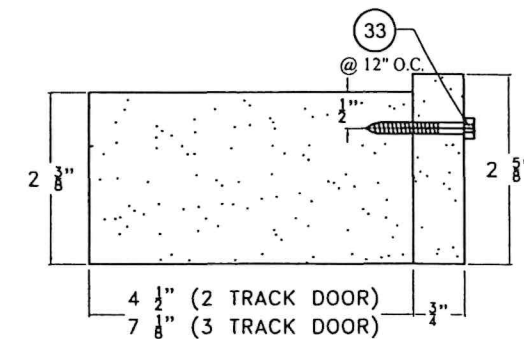
41 SETTING BLOCK



42 FIXED PANEL SHIM



43 FIXED PANEL CLIP



46 SUPPORT DRAINAGE SYSTEM
(CONTINUOUS)

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STATE OF
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CA-0006719
WALTER A. TILLIT Jr. P.E.
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PANORAMAH SERIES 2 / 3 TRACKS
SLIDING GLASS DOOR

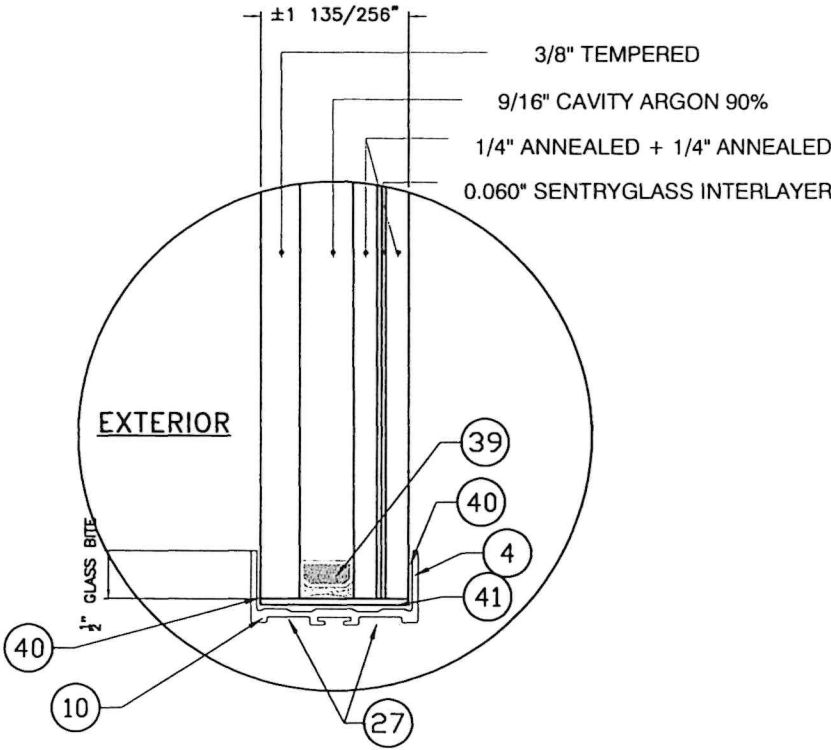
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www.jofebar.com
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metal works

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-286	07/7/23	3	-	-
2	-	-	4	-	-

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07/7/2023
DATE:
23-076
DRAWING No.
SHEET 4 OF 23

BILL OF MATERIALS (CONT'D)		
COMPONENT #	DESCRIPTION	MATERIAL
(A)	1 1/2" NOMINAL INSULATED-LAMINATED GLASS W/ 3/8" TEMPERED GLASS OUT BOARD - 9/16" ARGON SPACER + 1/4" ANNEALED GLASS +0.060" SENTRYGLASS LAMINATE BY KURARAY AMERICA, INC. + 1/4" ANNEALED GLASS.	GLASS

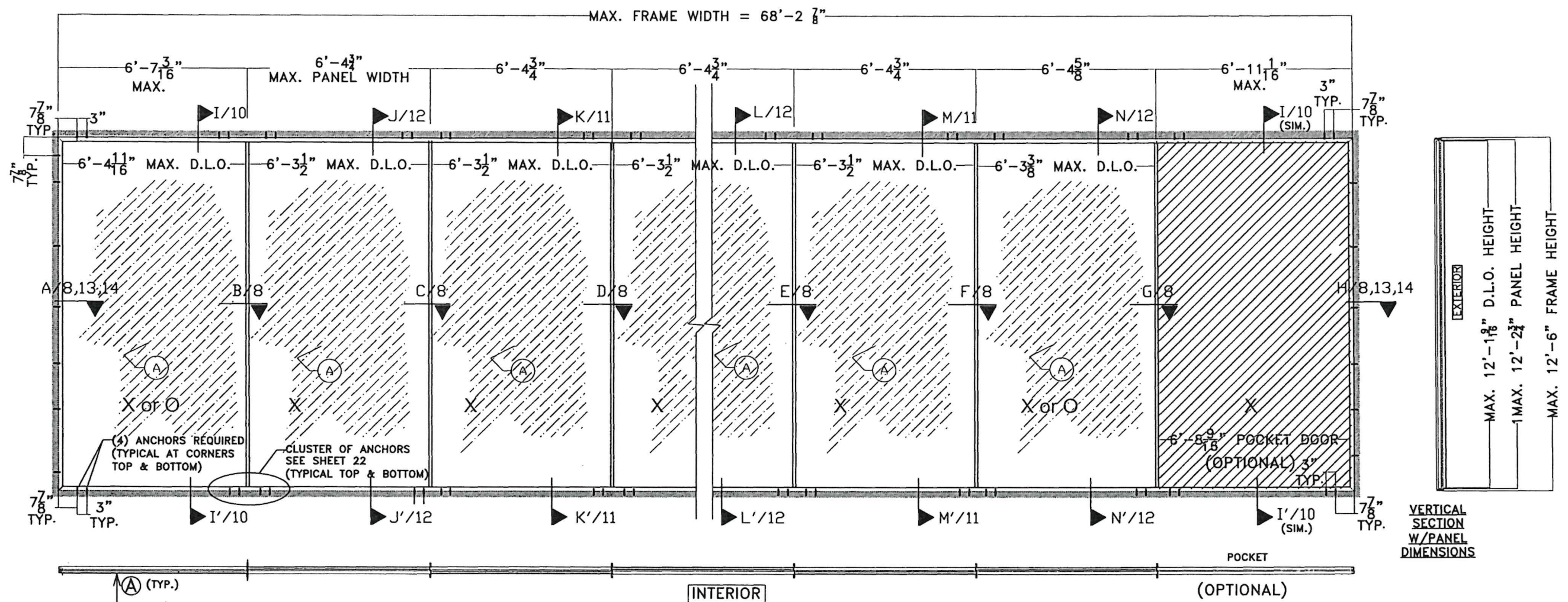


INSULATED GLASS
"A"

GLASS CONFIGURATION

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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-266	07/7/23	3	-	-
2	-	-	4	-	-



TYPICAL: INTERIOR ELEVATION 2 TRACK DOOR
SCALE: 1/4" = 1'-0"



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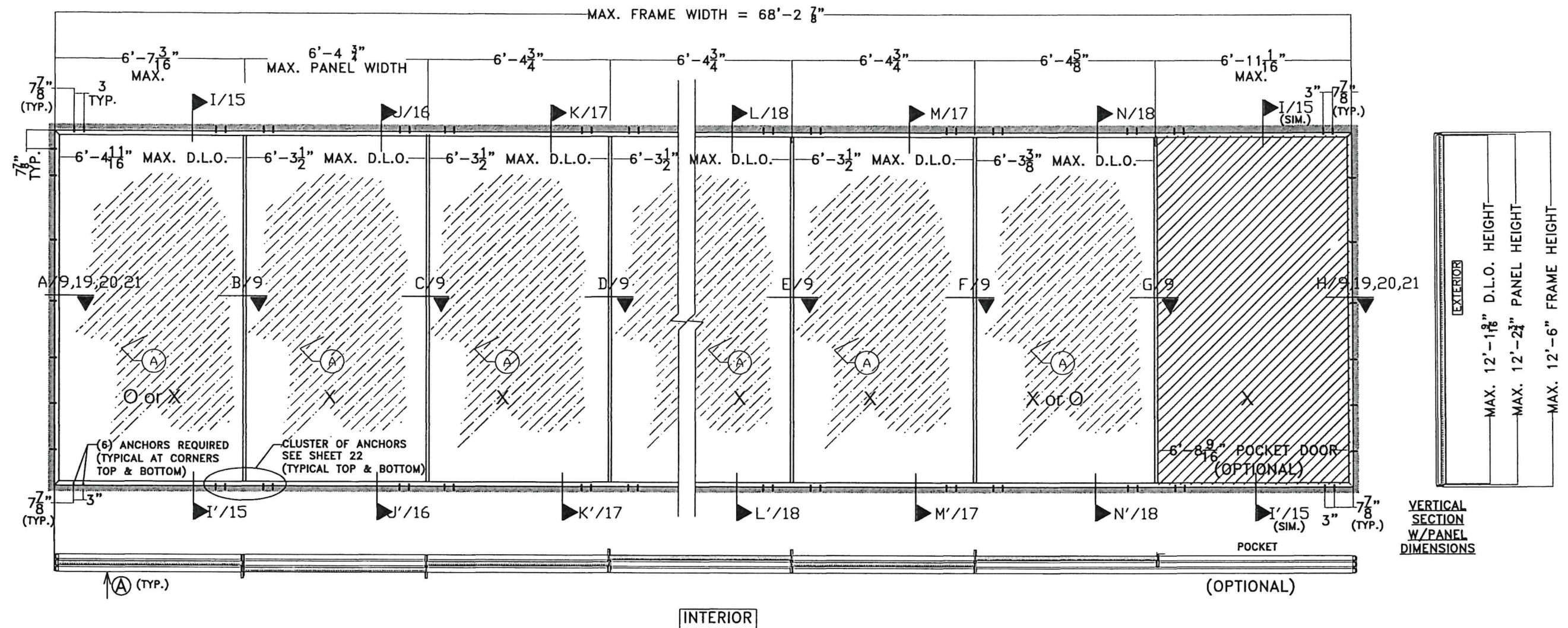
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DATE:

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DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-268	07/7/23	3	-	-
2	-	-	4	-	-

SHEET 6 OF 23



TYPICAL INTERIOR ELEVATION 3 TRACK DOOR
SCALE: 1/4" = 1'-0"

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PANORAMAH SERIES 2 / 3 TRACKS
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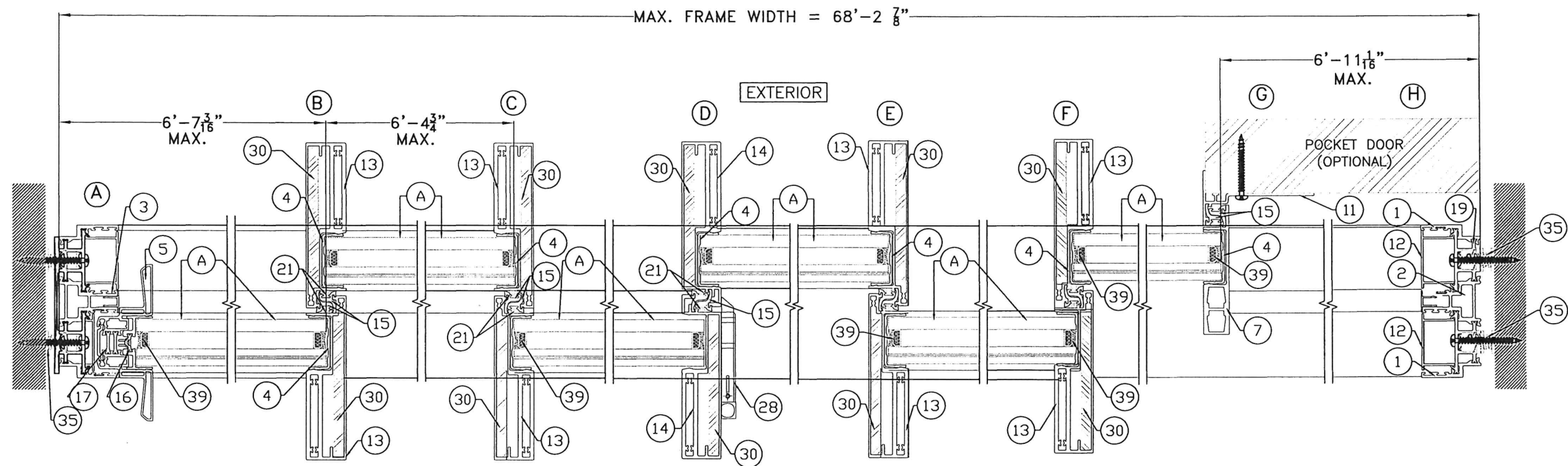
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1	OLD 20-266	07/7/23	3	-	-
2	-	-	4	-	-

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DATE:
23-076
DRAWING No.

SHEET 7 OF 23



SECTIONS A-B-C-D-E-F-G-H
(2 TRACK)
N.T.S.

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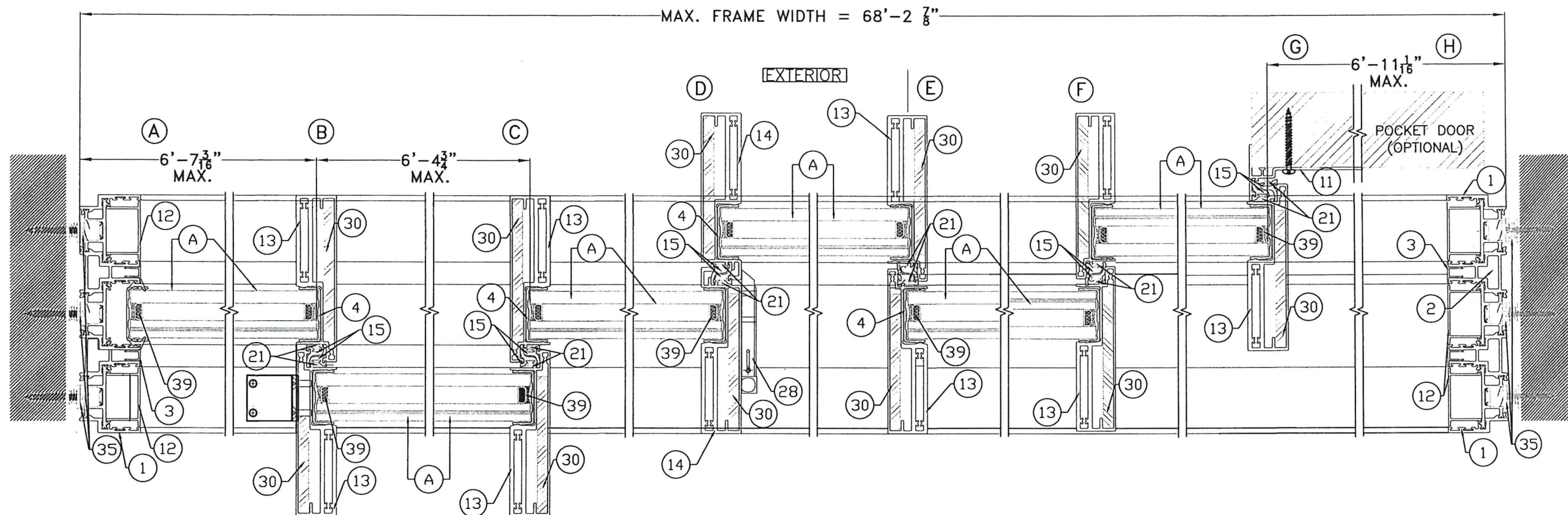
Y.M.
DRAWN BY:

07/7/2023
DATE:

23-076
DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

SHEET 8 OF 23



SECTIONS A-B-C-D-E-F-G-H
(3 TRACK)
N.T.S.

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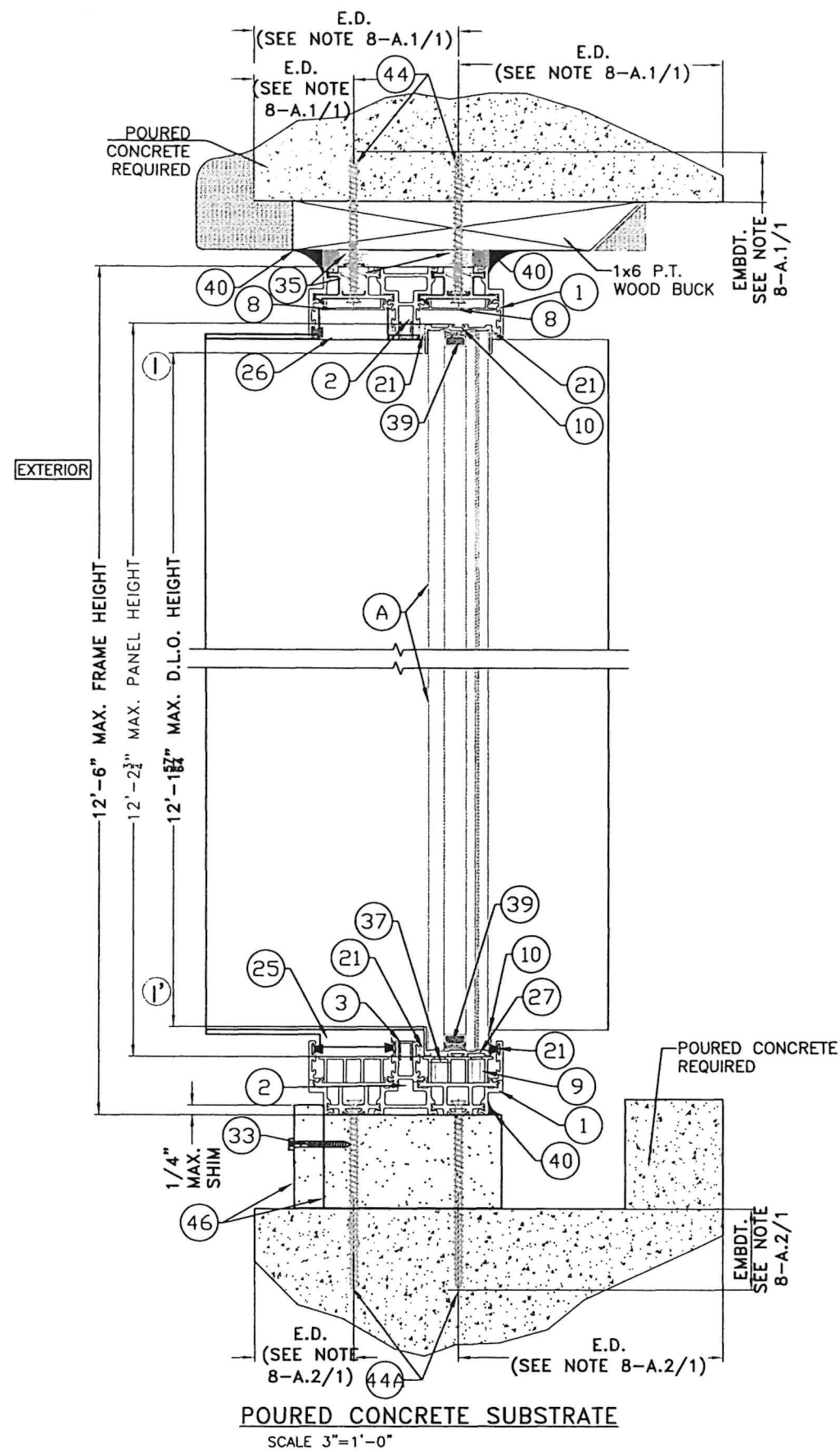
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DATE:

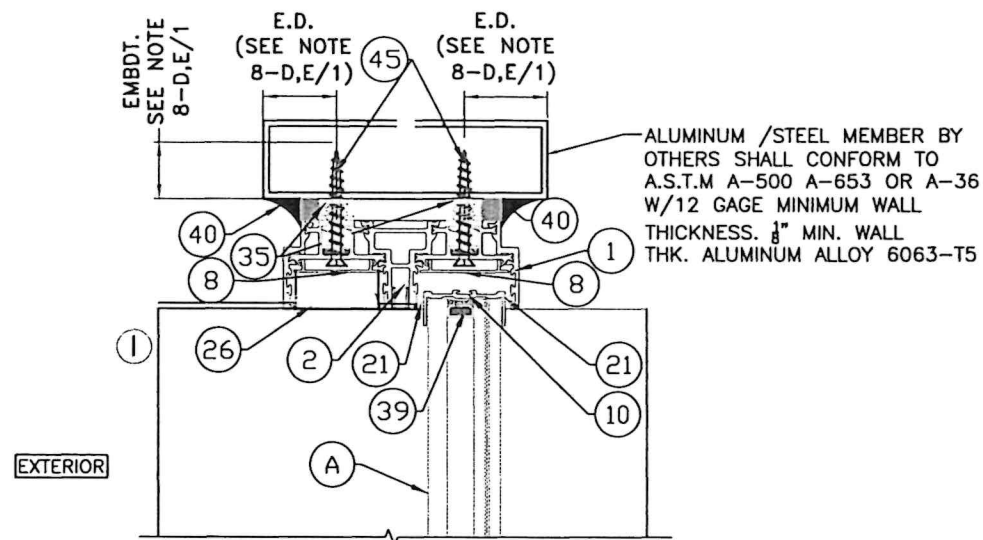
23-076
DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-286	07/7/23	3	-	-
2	-	-	4	-	-

SHEET 9 OF 23



POURED CONCRETE SUBSTRATE
SCALE 3"=1'-0"

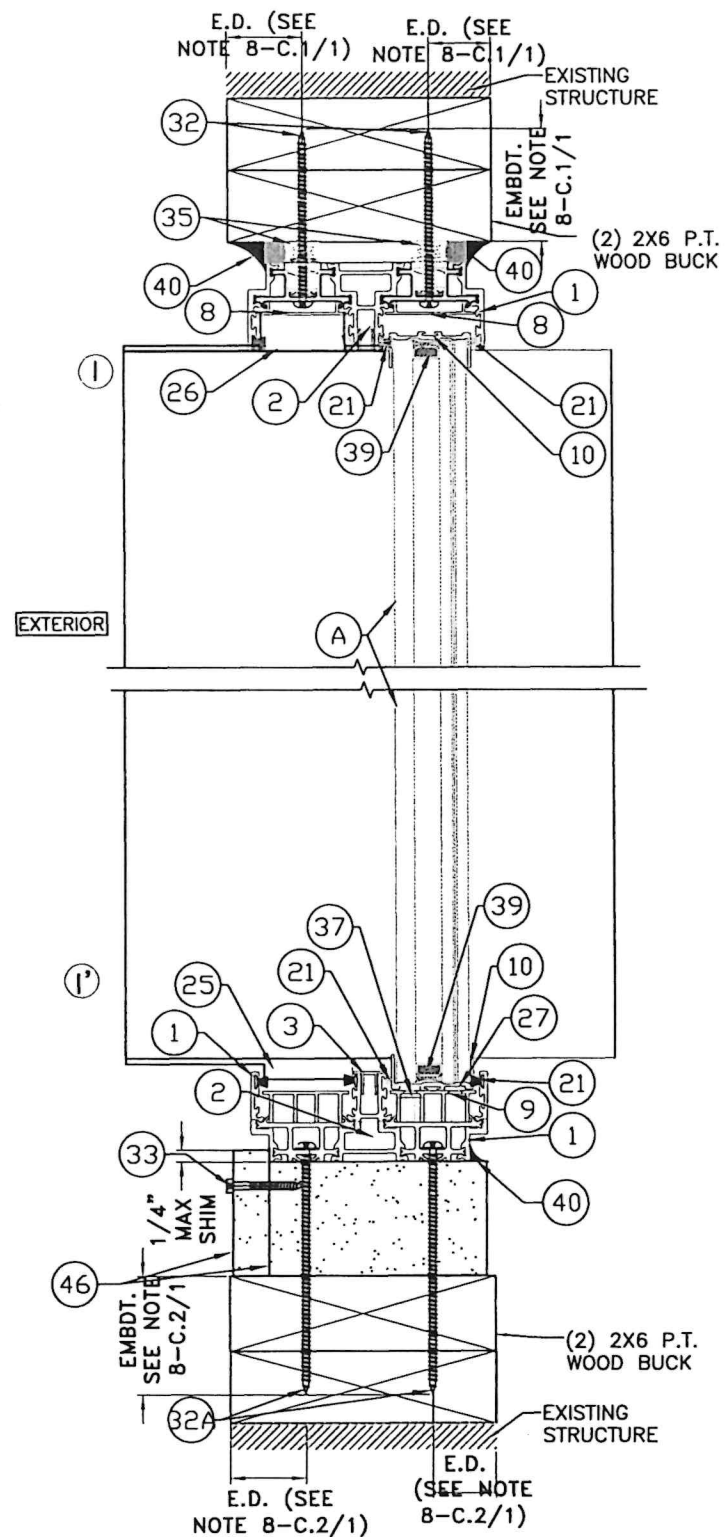


ALUMINUM & STEEL SUBSTRATE
SCALE 3"=1'-0"

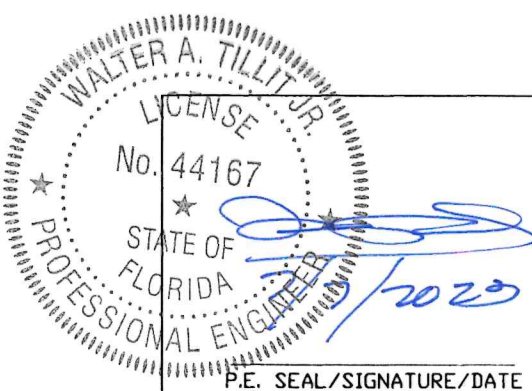
(2 TRACK) VERTICAL SECTIONS

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SHEETS 22, 23 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.



WOOD SUBSTRATE
SCALE 3"=1'-0"



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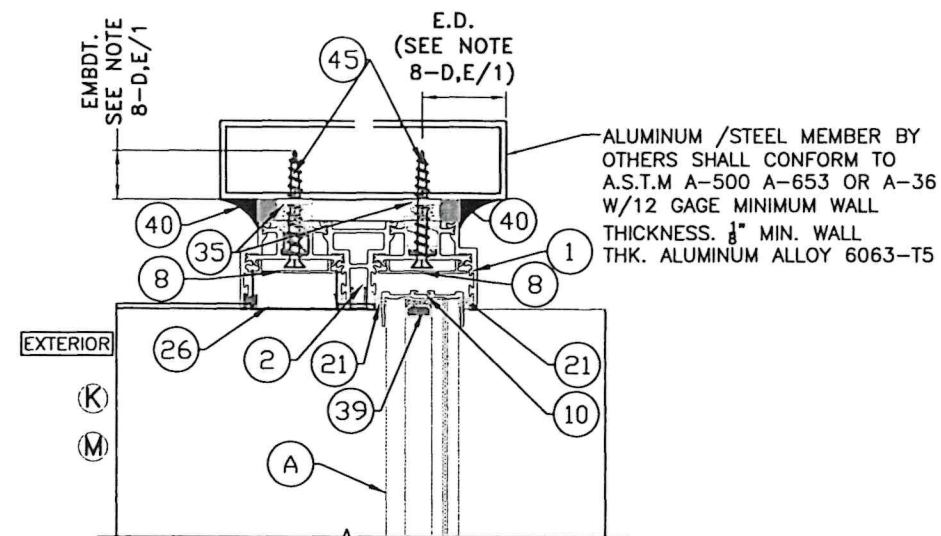
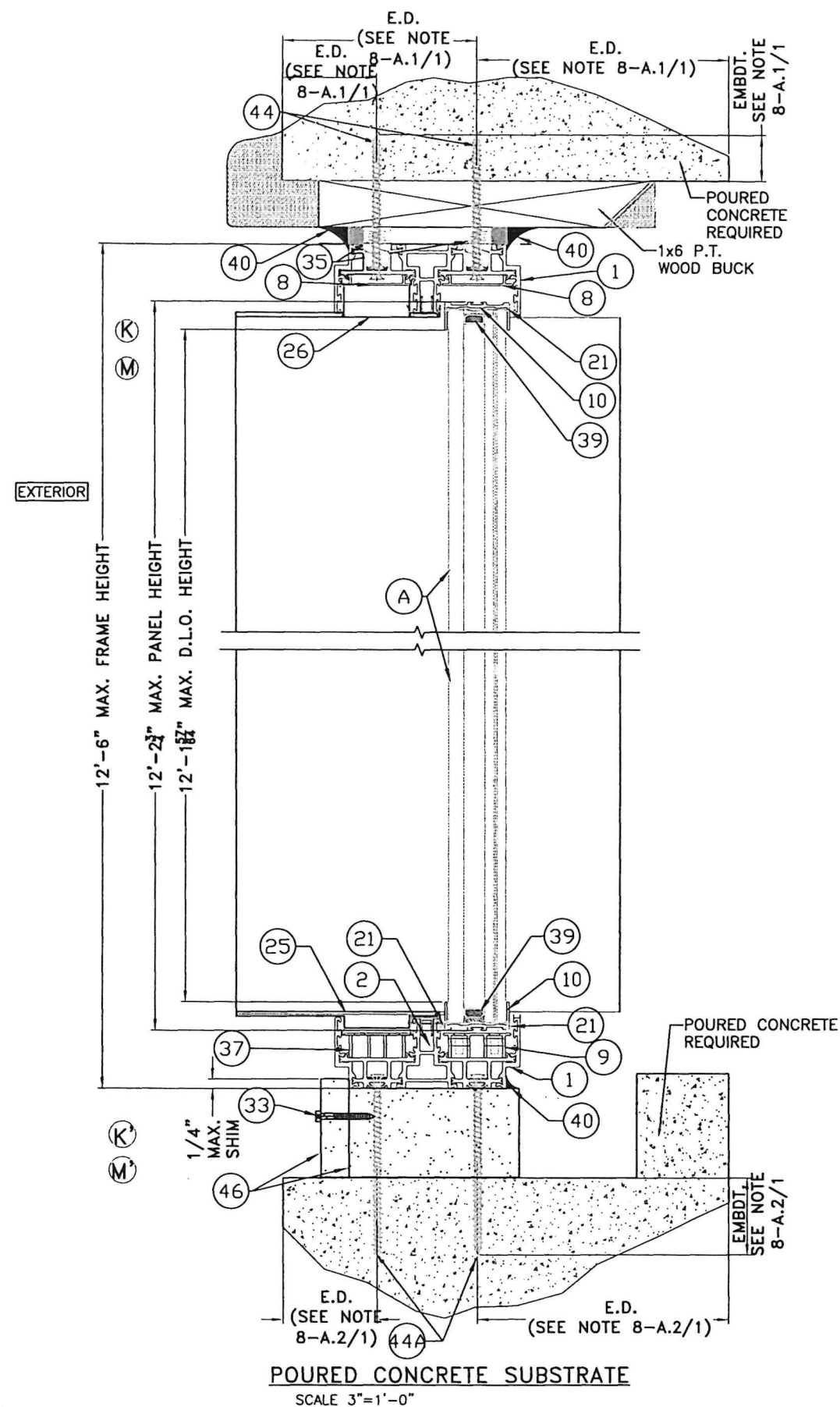
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07/7/2023
DATE:

23-076
DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

SHEET 10 OF 23



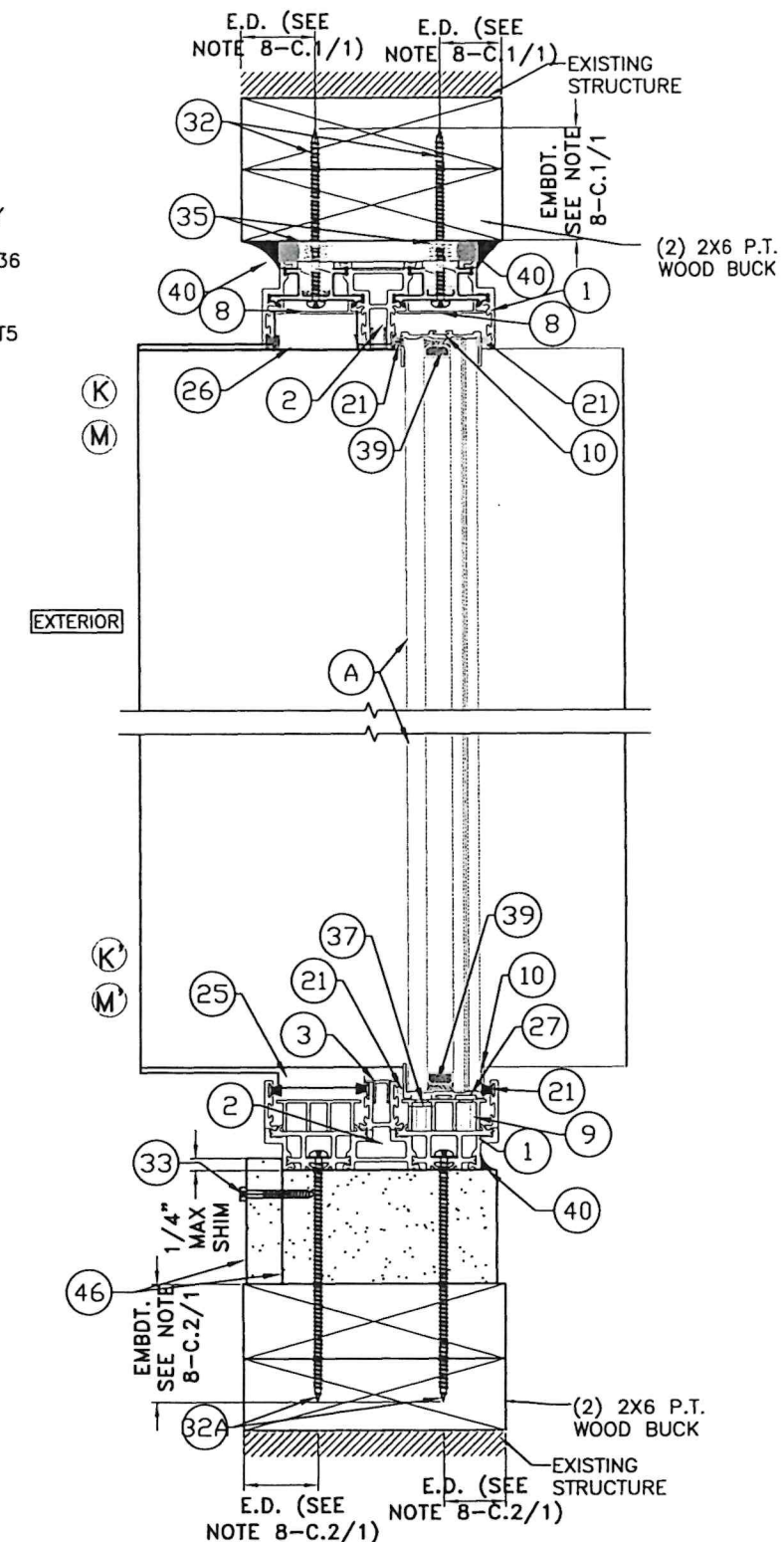
ALUMINUM & STEEL SUBSTRATE

SCALE 3"=1'-0"

(2 TRACK) VERTICAL
SECTIONS

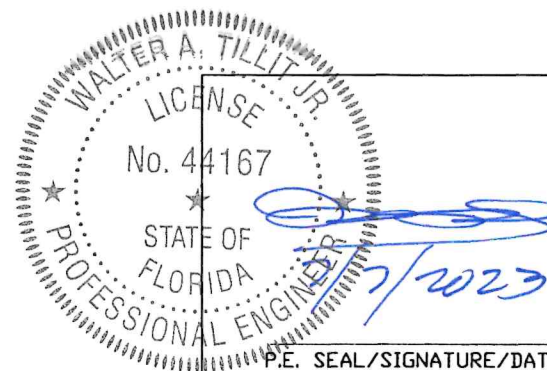
NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SHEETS 22 , 23 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.



WOOD SUBSTRATE

SCALE 3"=1'-0"



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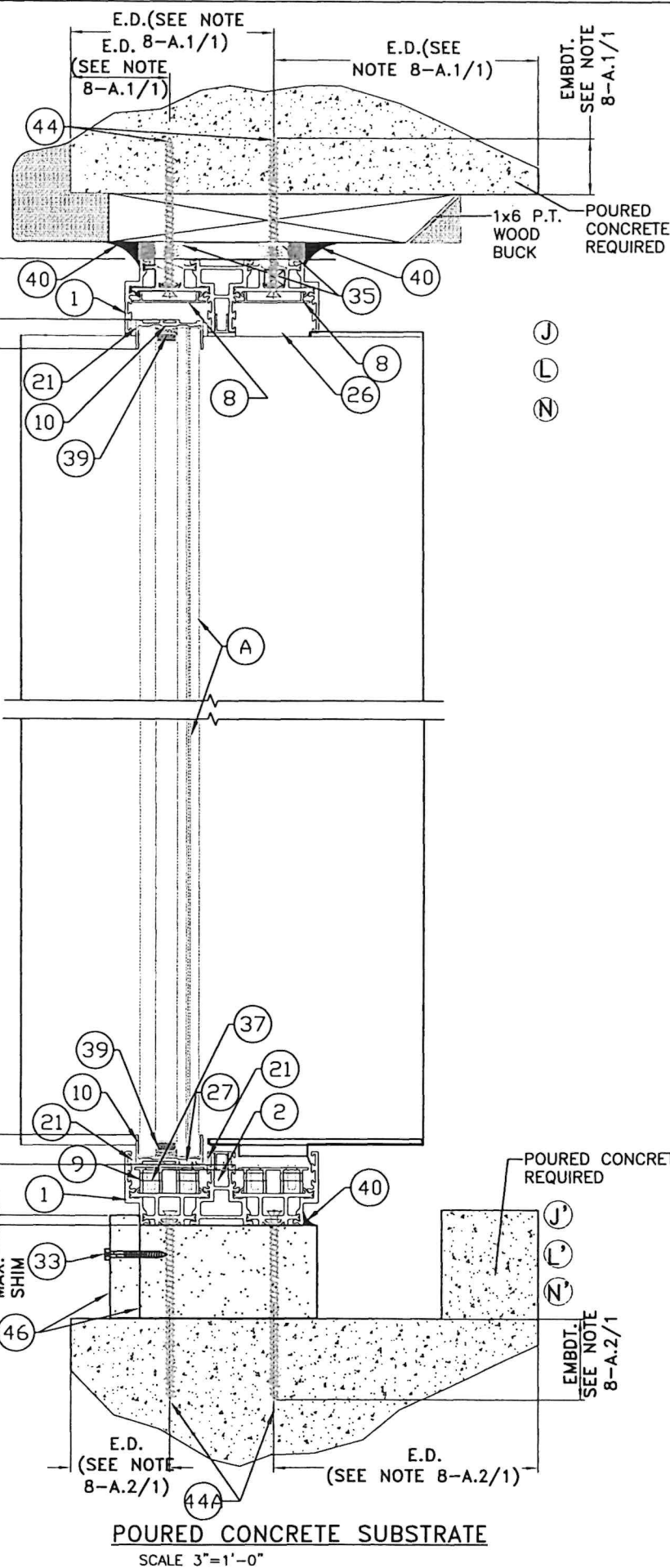
23-076

DRAWING No.

SHEET 11 OF 23

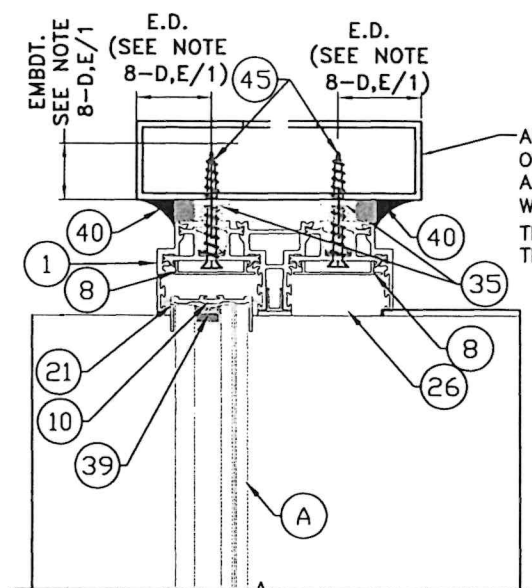
EXTERIOR

12'-6" MAX. FRAME HEIGHT
12'-2 1/4" MAX. PANEL HEIGHT
12'-1 1/4" MAX. D.L.O. HEIGHT



POURED CONCRETE SUBSTRATE
SCALE 3"=1'-0"

EXTERIOR

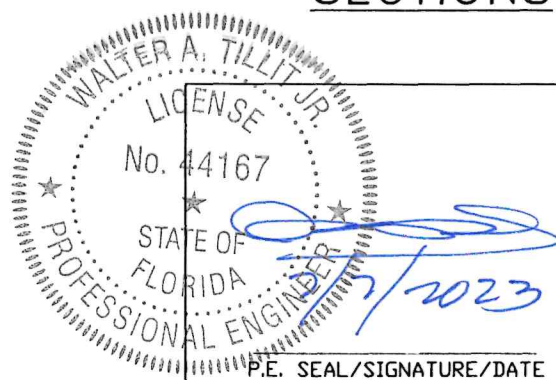


ALUMINUM & STEEL SUBSTRATE
SCALE 3"=1'-0"

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SHEETS 22, 23 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

(2 TRACK) VERTICAL SECTIONS



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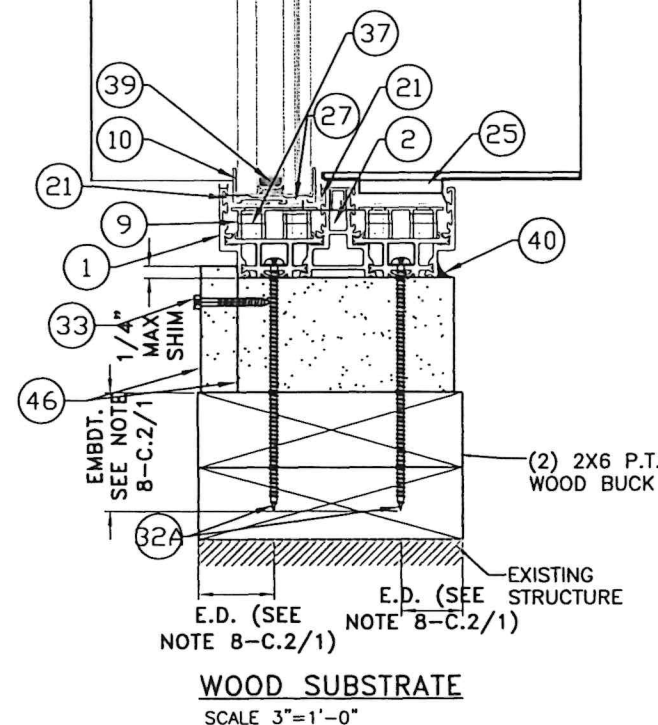
07/7/2023
DATE:

23-076

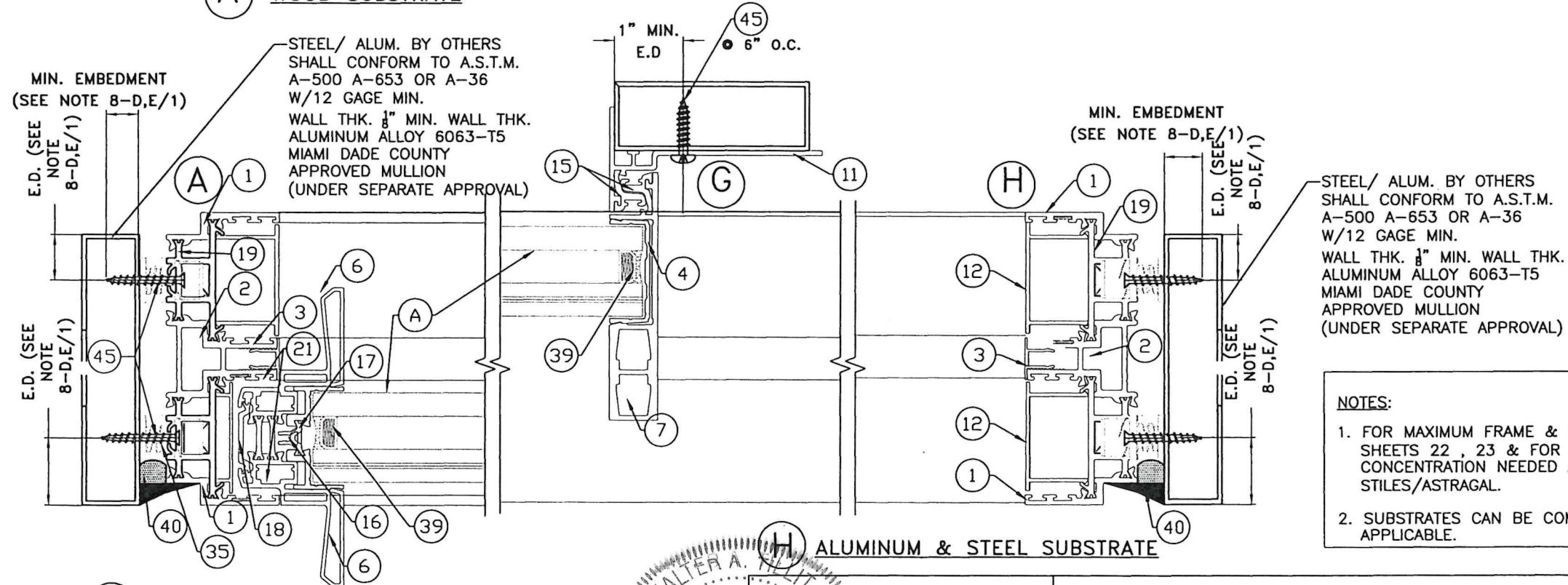
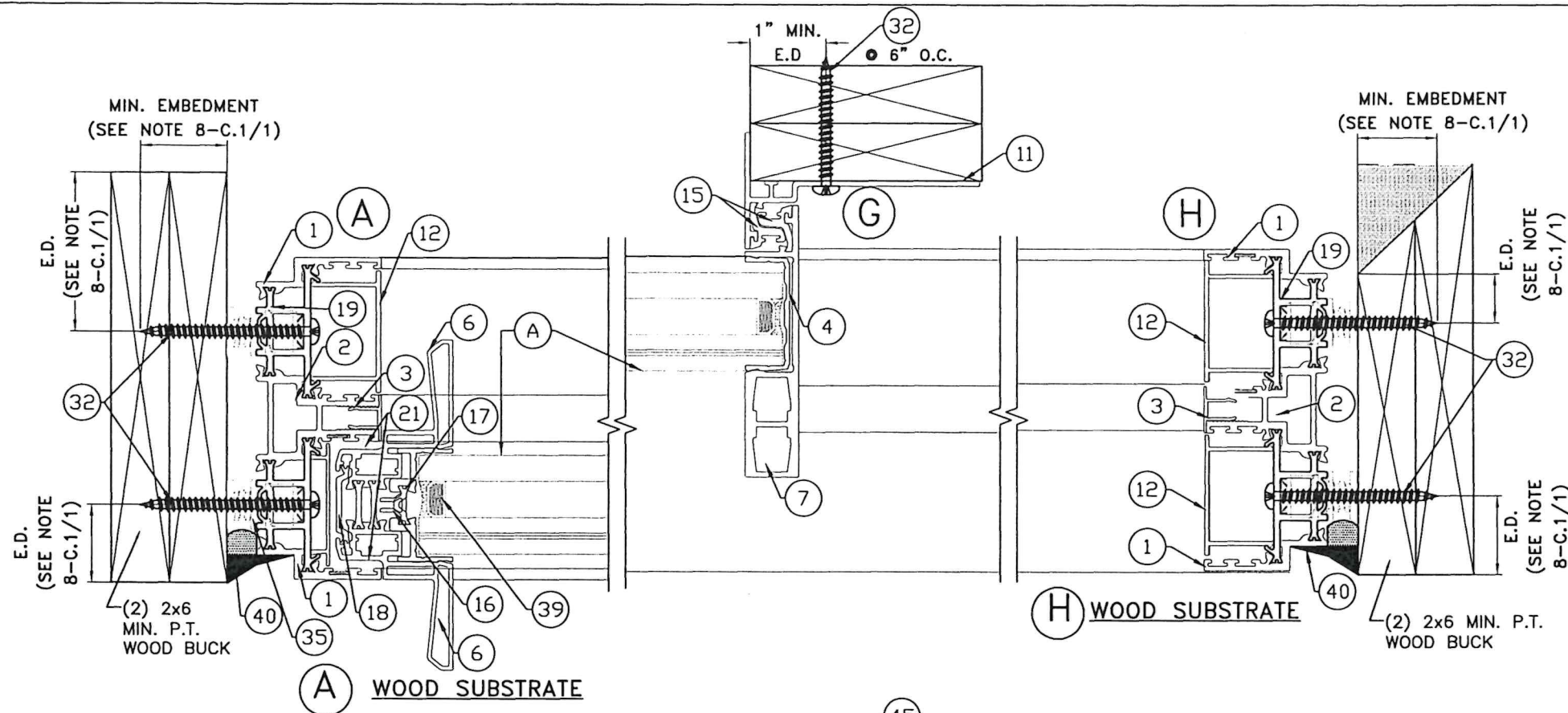
DRAWING No.

SHEET 12 OF 23

EXTERIOR



WOOD SUBSTRATE
SCALE 3"=1'-0"



NOTES:

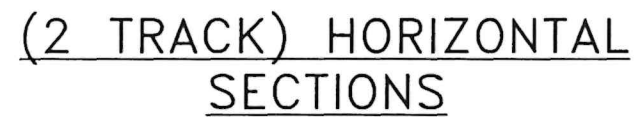
1. FOR MAXIMUM FRAME & D.L.O. SEE SHEETS 22, 23 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

**(A) ALUMINUM & STEEL SUBSTRATE
(2 TRACK) HORIZONTAL
SECTIONS**

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PROFESSIONAL ENGINEER
7/2023
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-286	07/7/23	3	-	-
2	-	-	4	-	-

SHEET 13 OF 23



2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

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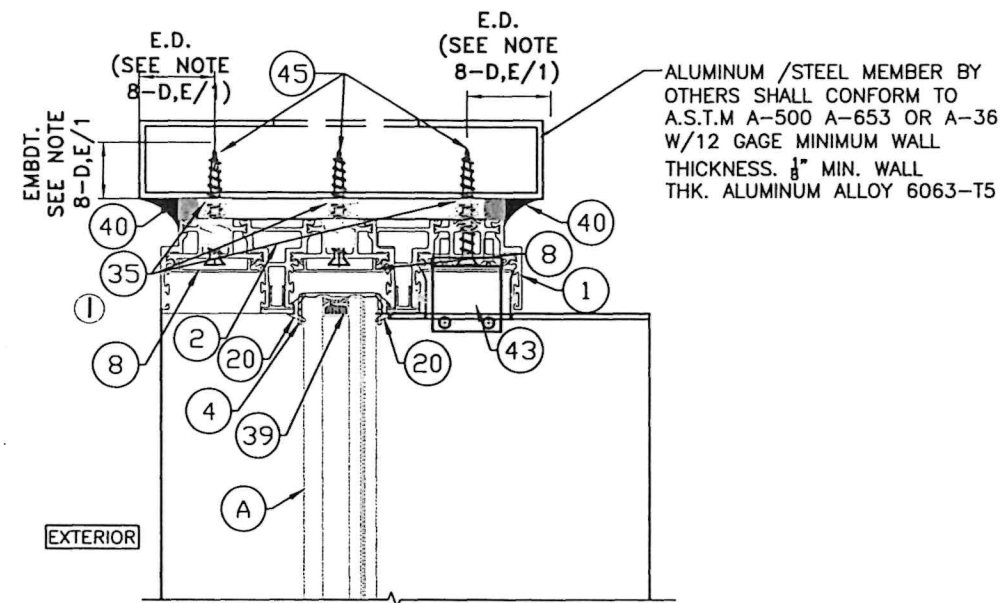
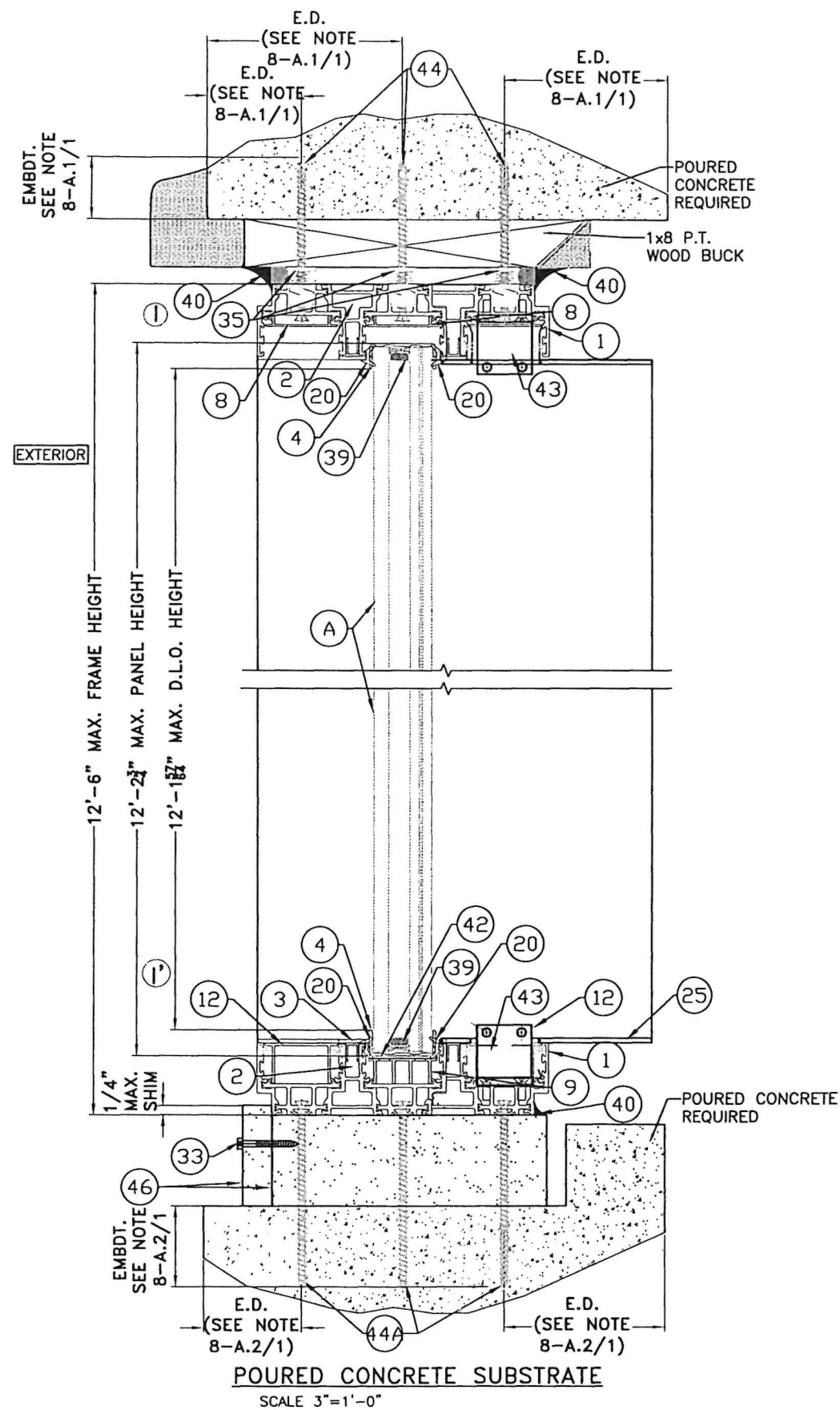
Y.M.
DRAWN BY:

7/7/2023
DATE:

3-076

ET 14 OF 23

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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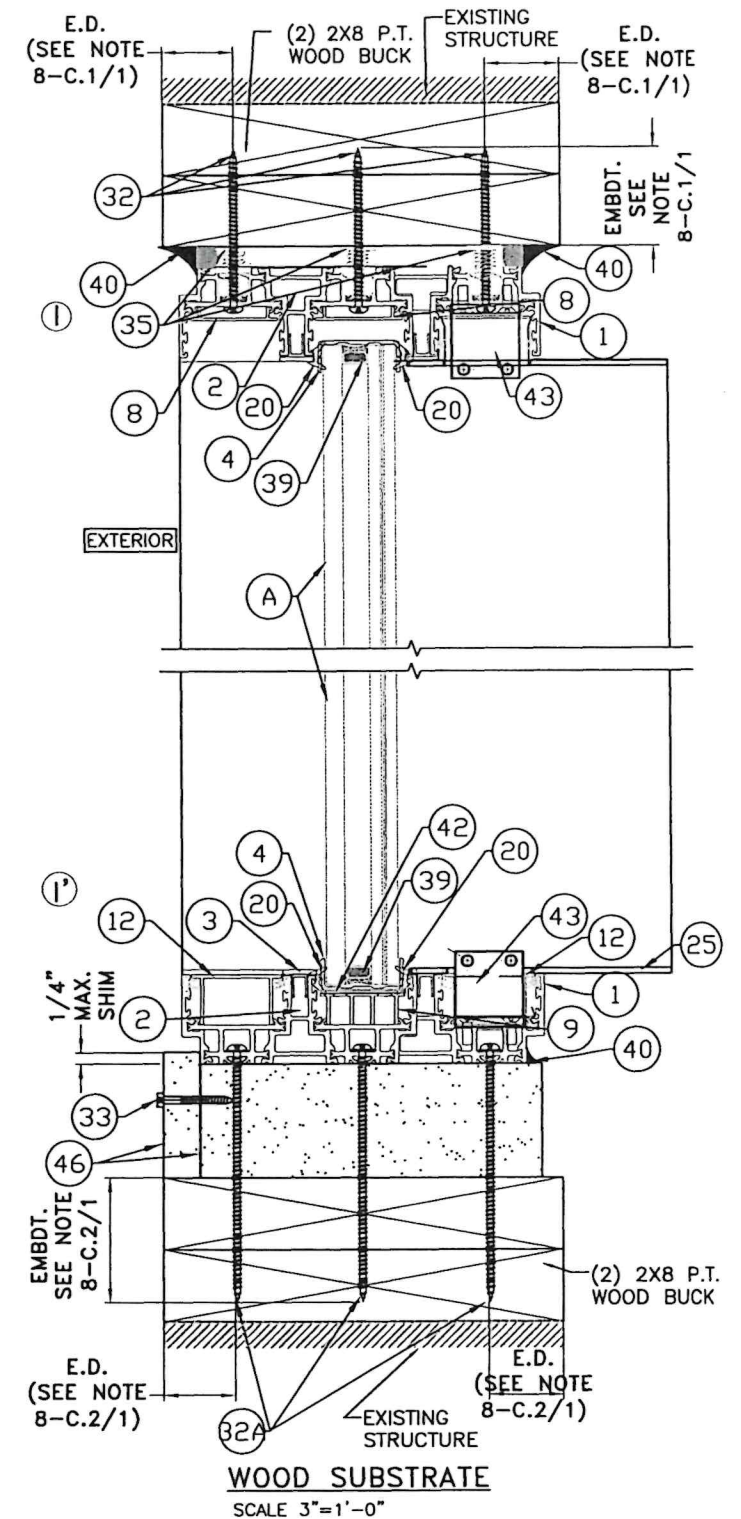
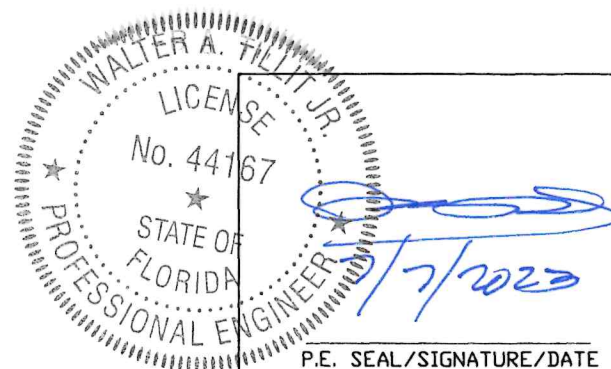


ALUMINUM & STEEL SUBSTRATE
SCALE 3"=1'-0"

NOTES:

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(3 TRACK) VERTICAL SECTIONS



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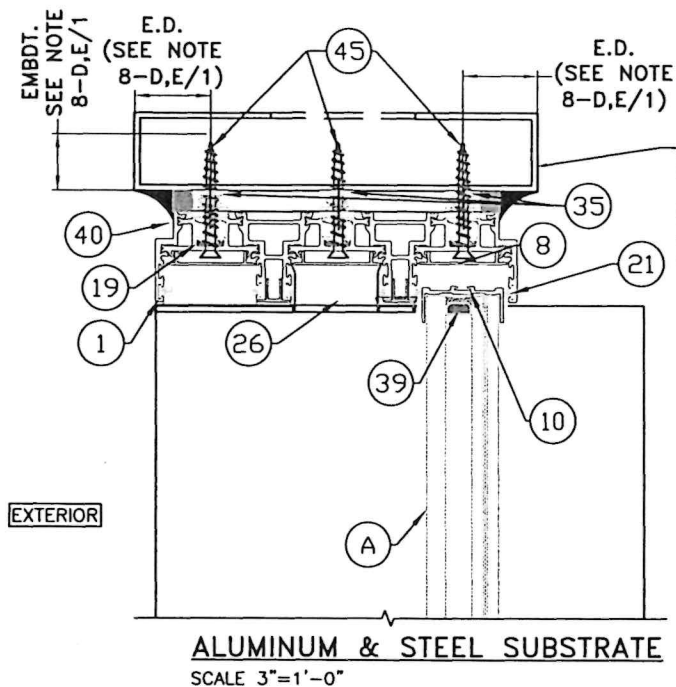
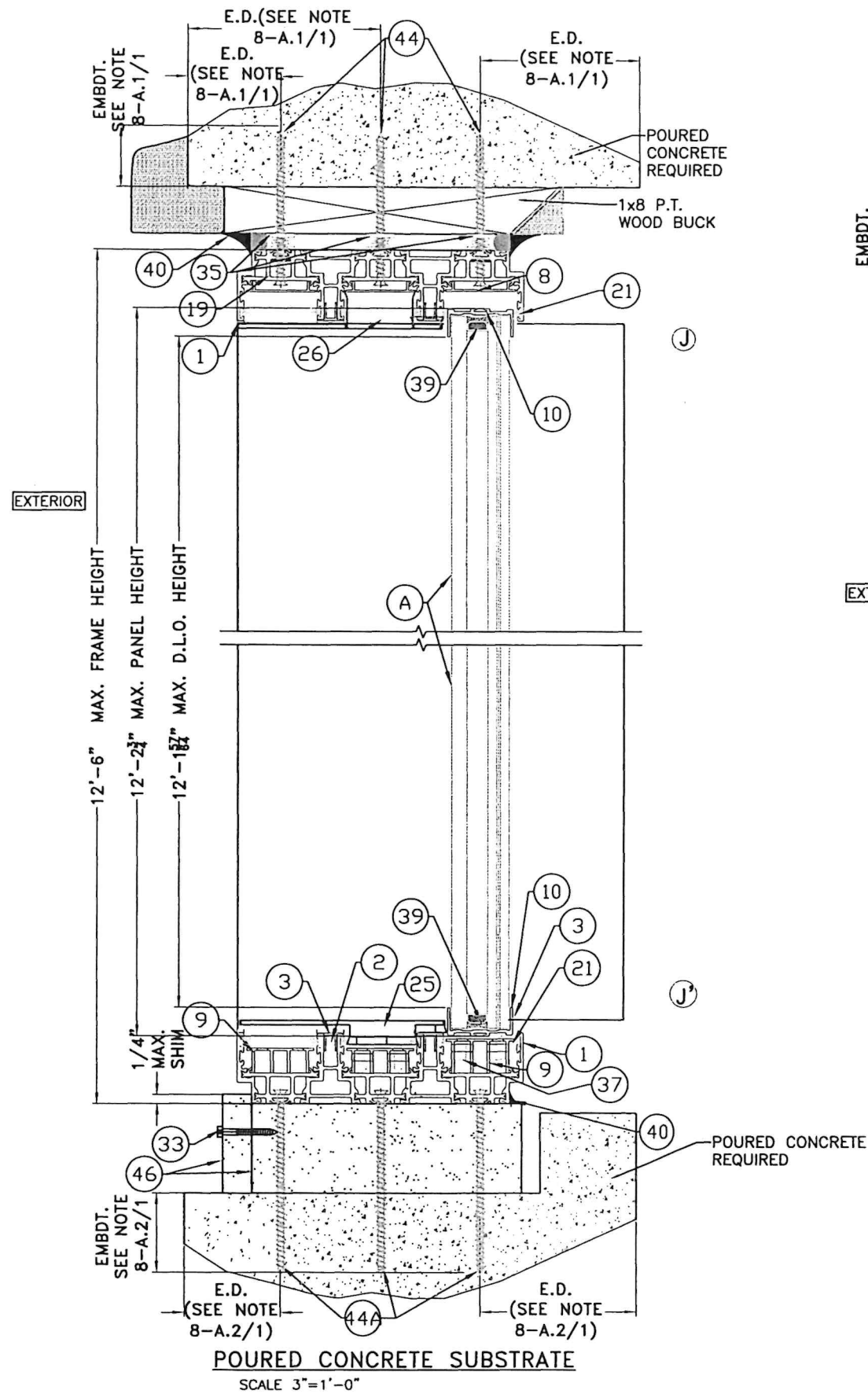
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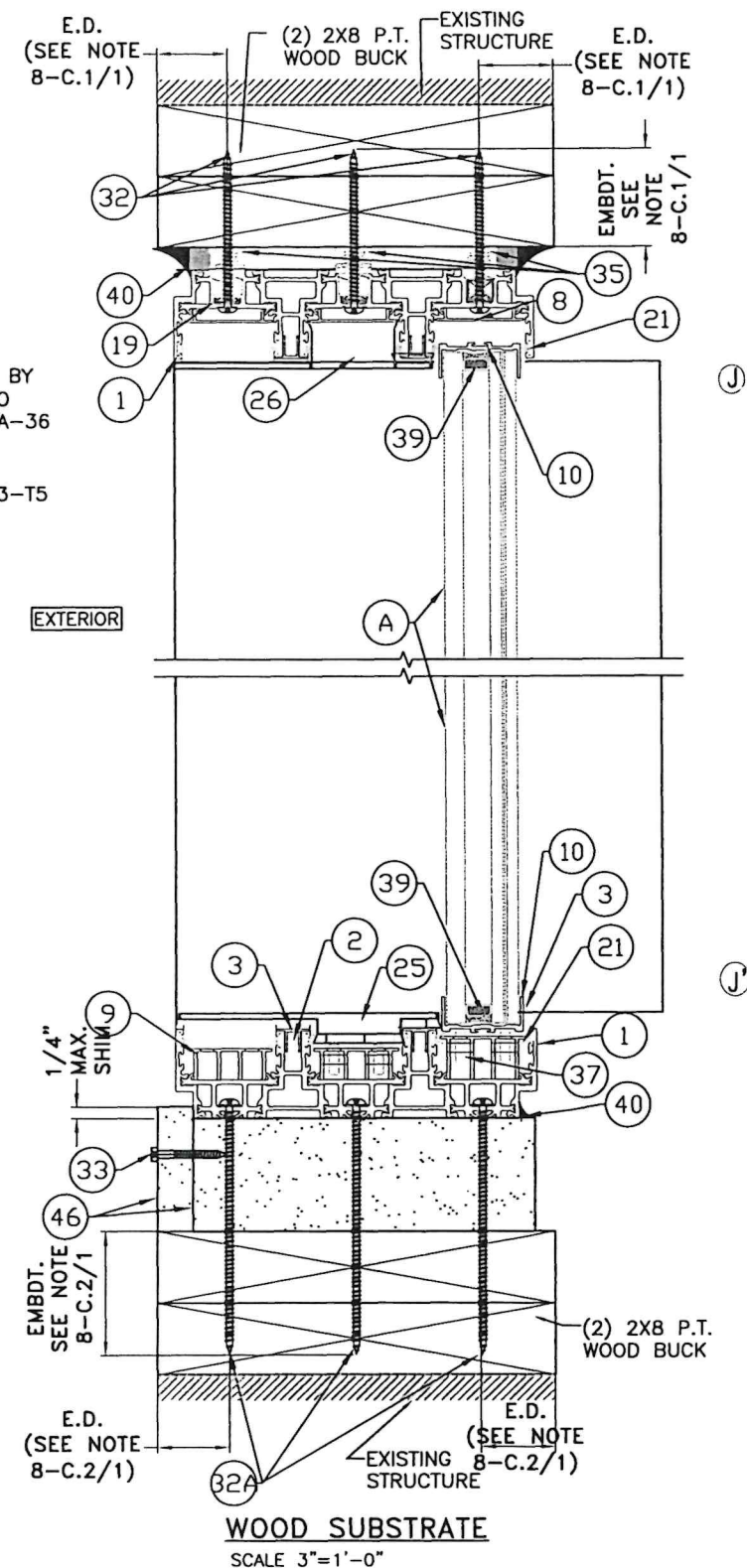
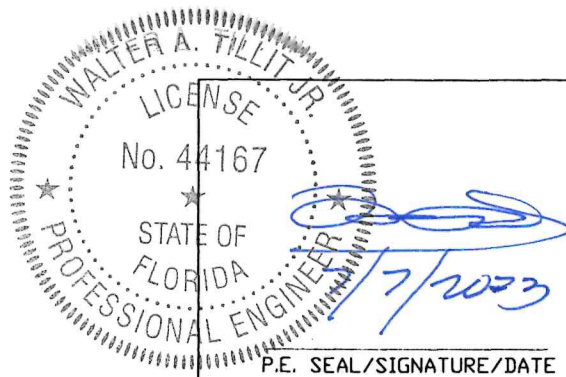
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NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SHEETS 22, 23 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

(3 TRACK) VERTICAL SECTIONS



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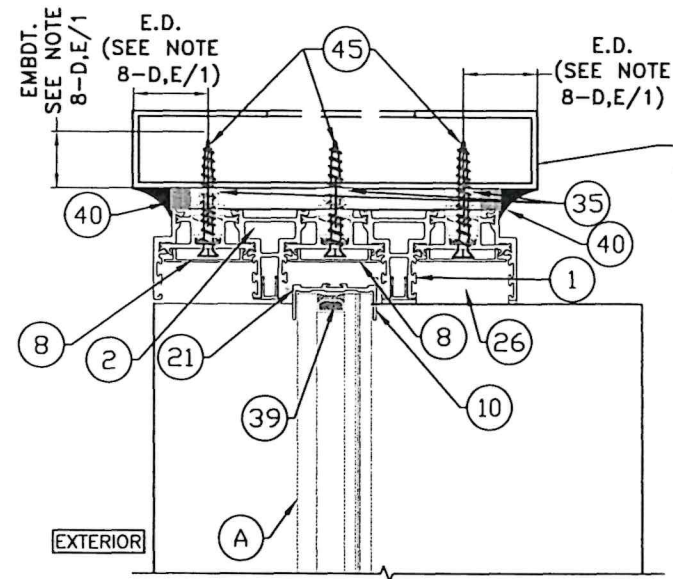
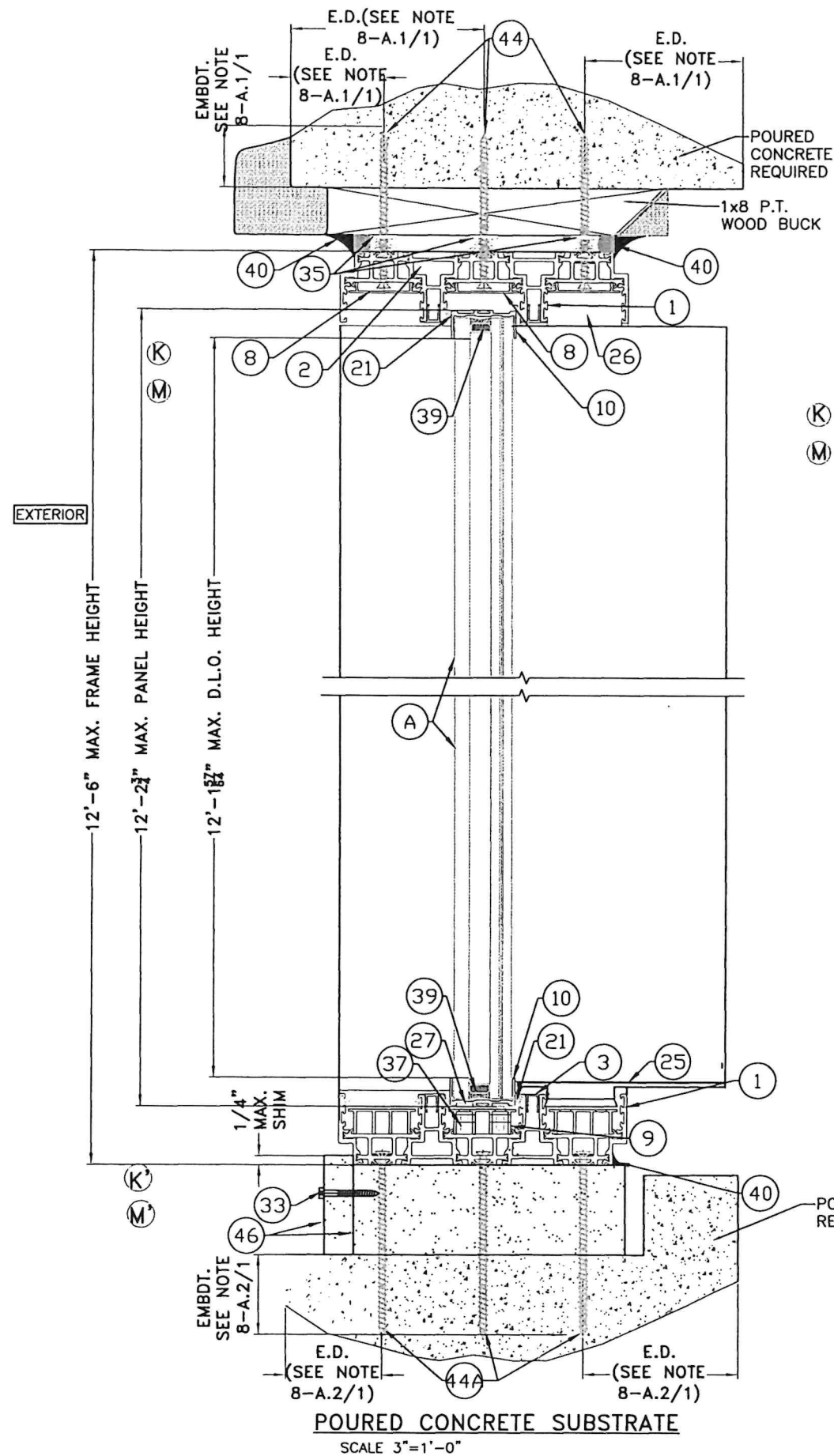
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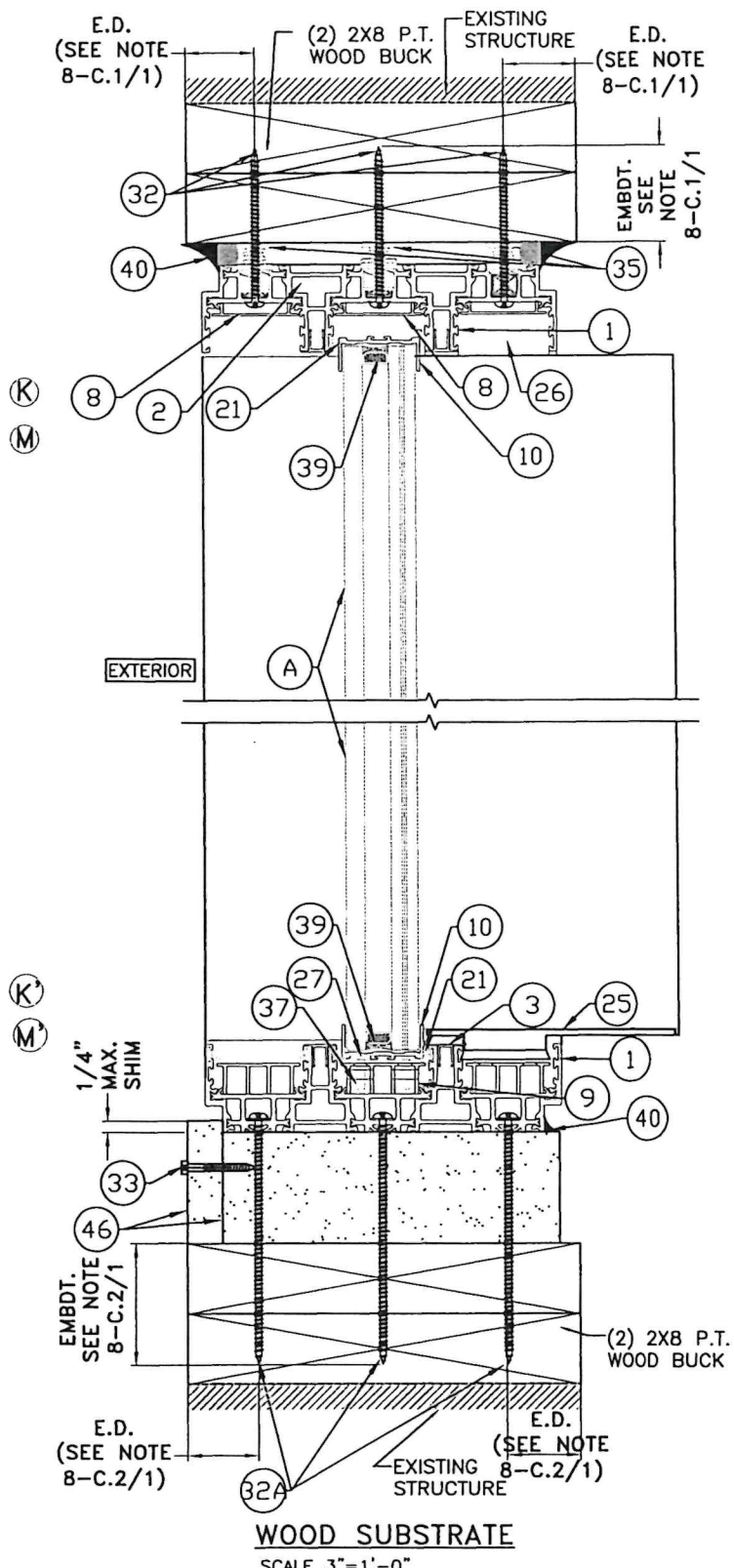
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1	OLD 20-288	07/7/23	3	-	-
2	-	-	4	-	-



ALUMINUM & STEEL SUBSTRATE
SCALE 3"=1'-0"

- NOTES:
1. FOR MAXIMUM FRAME & D.L.O. SEE SHEETS 22, 23 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL.
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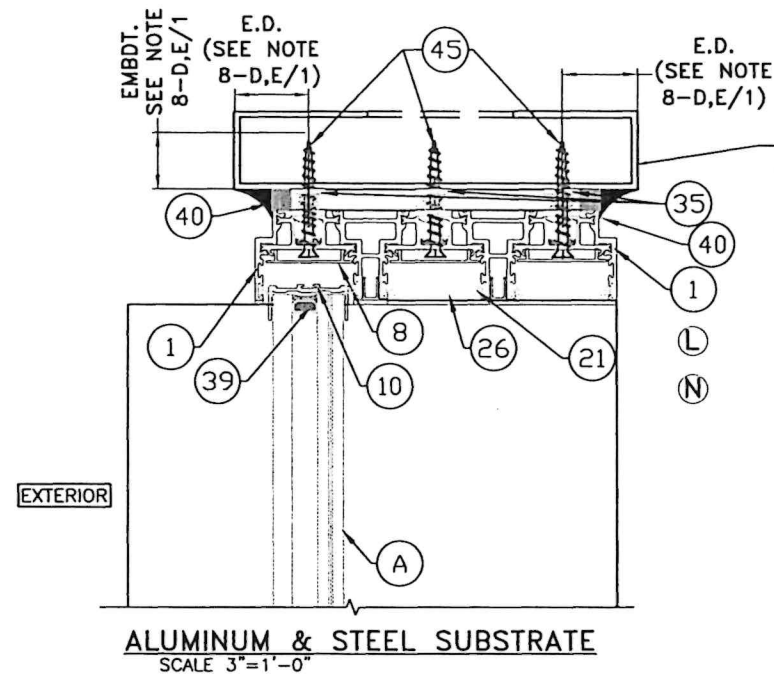
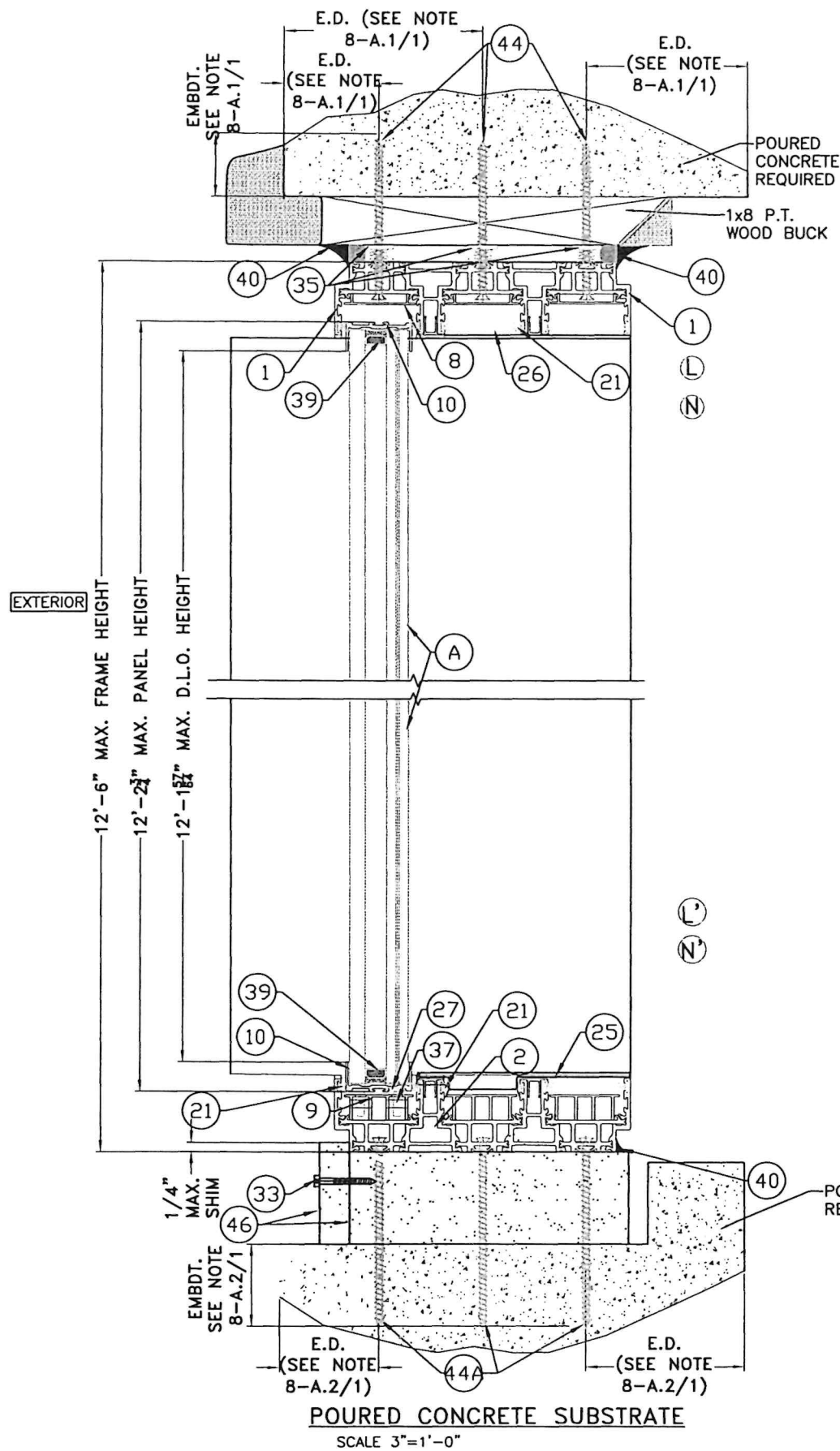
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1. FOR MAXIMUM FRAME & D.L.O. SEE SHEETS 22, 23 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

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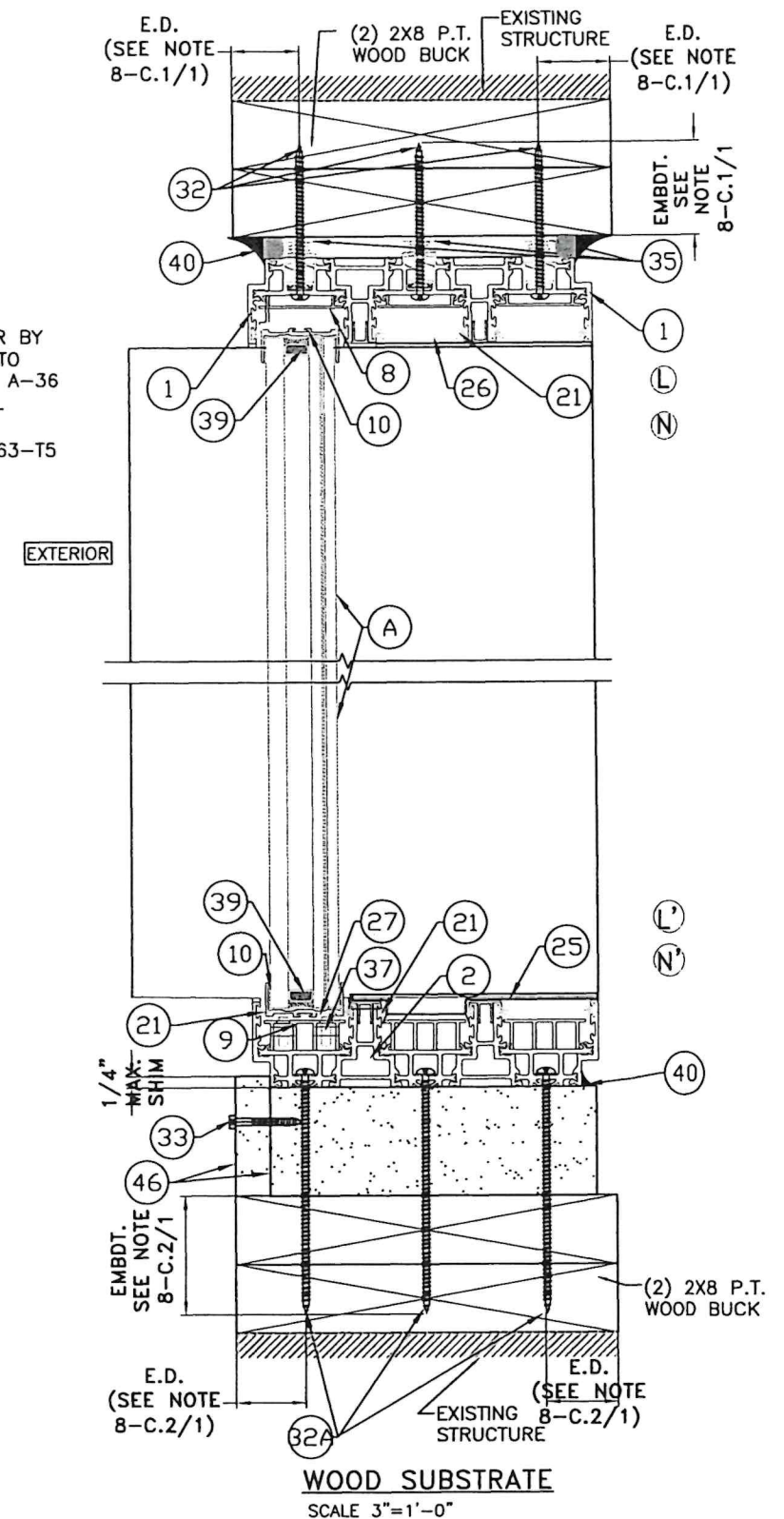
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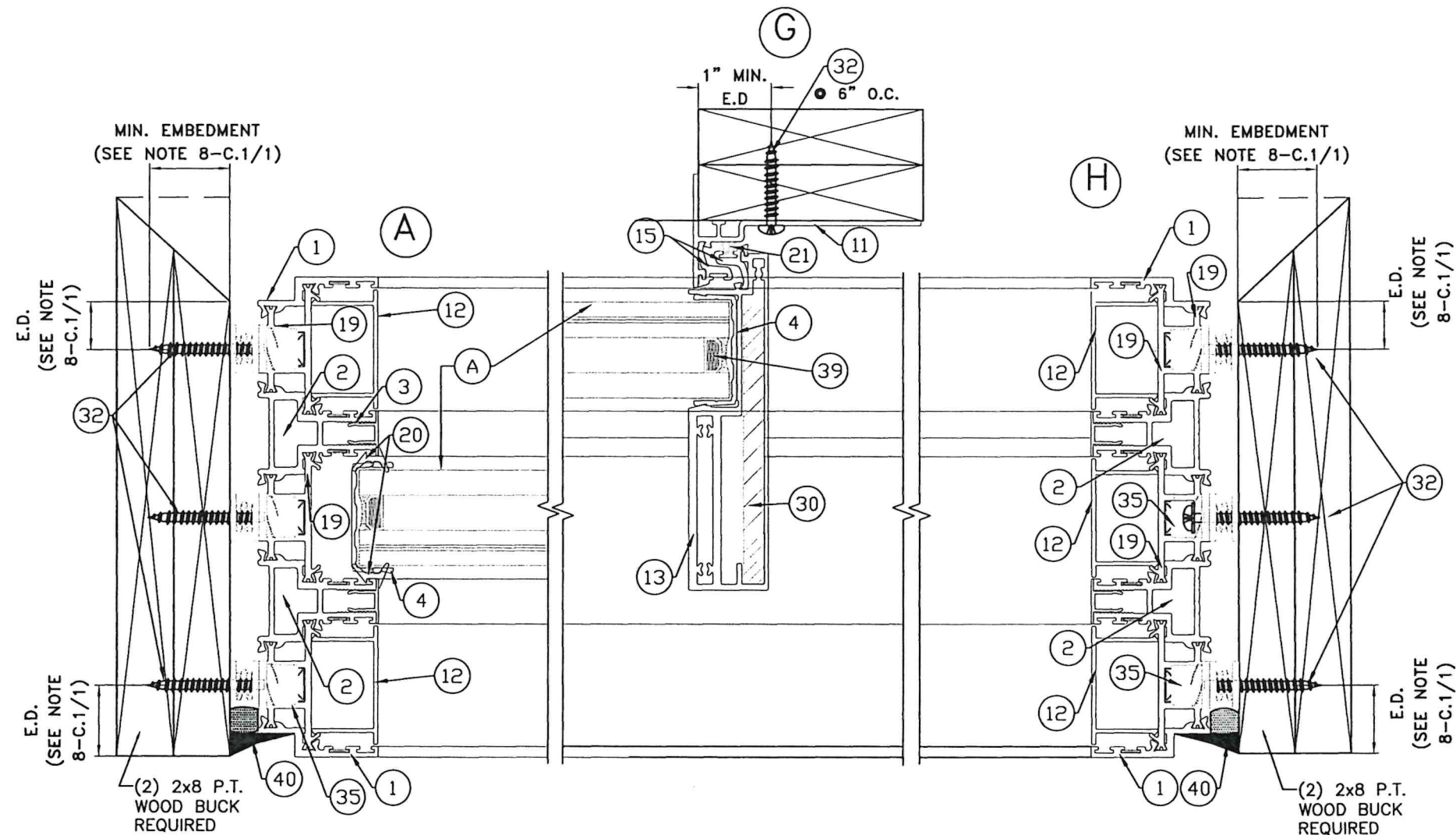
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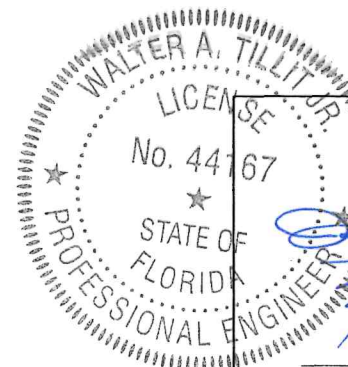


(A) WOOD SUBSTRATE

**(H) WOOD SUBSTRATE
(3 TRACK) HORIZONTAL
SECTIONS**

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SHEETS 22, 23 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL.
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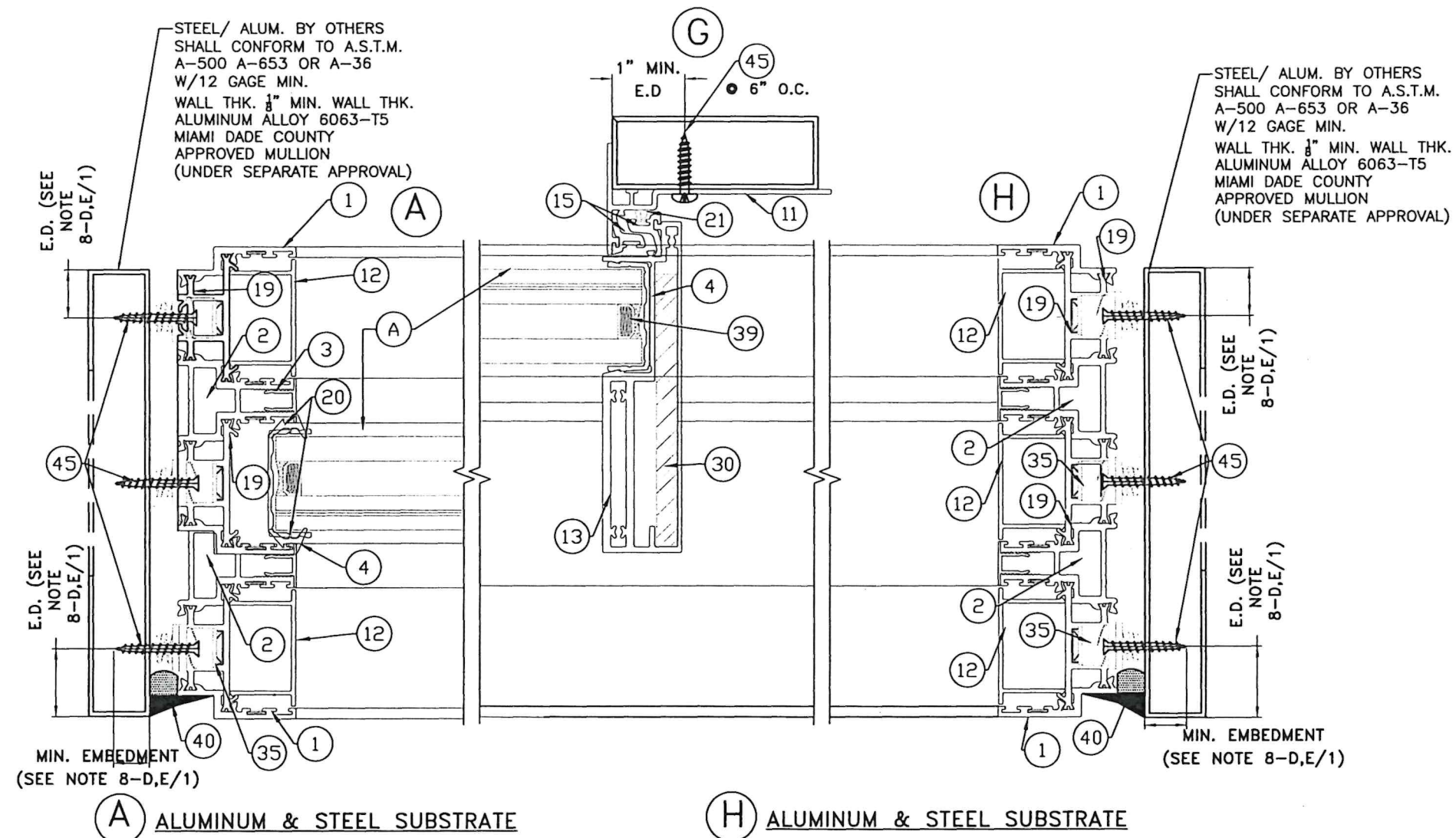
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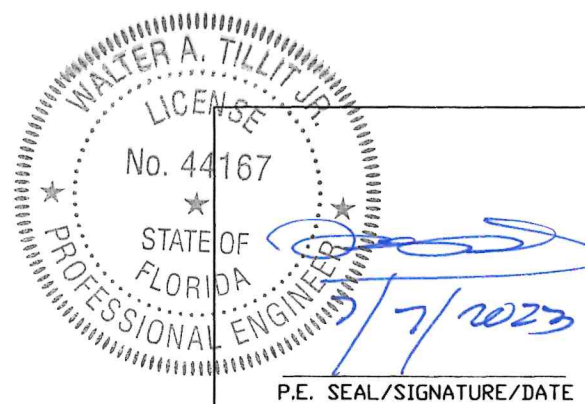
SHEET 19 OF 23



(3 TRACK) HORIZONTAL SECTIONS

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SHEETS 22, 23 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.



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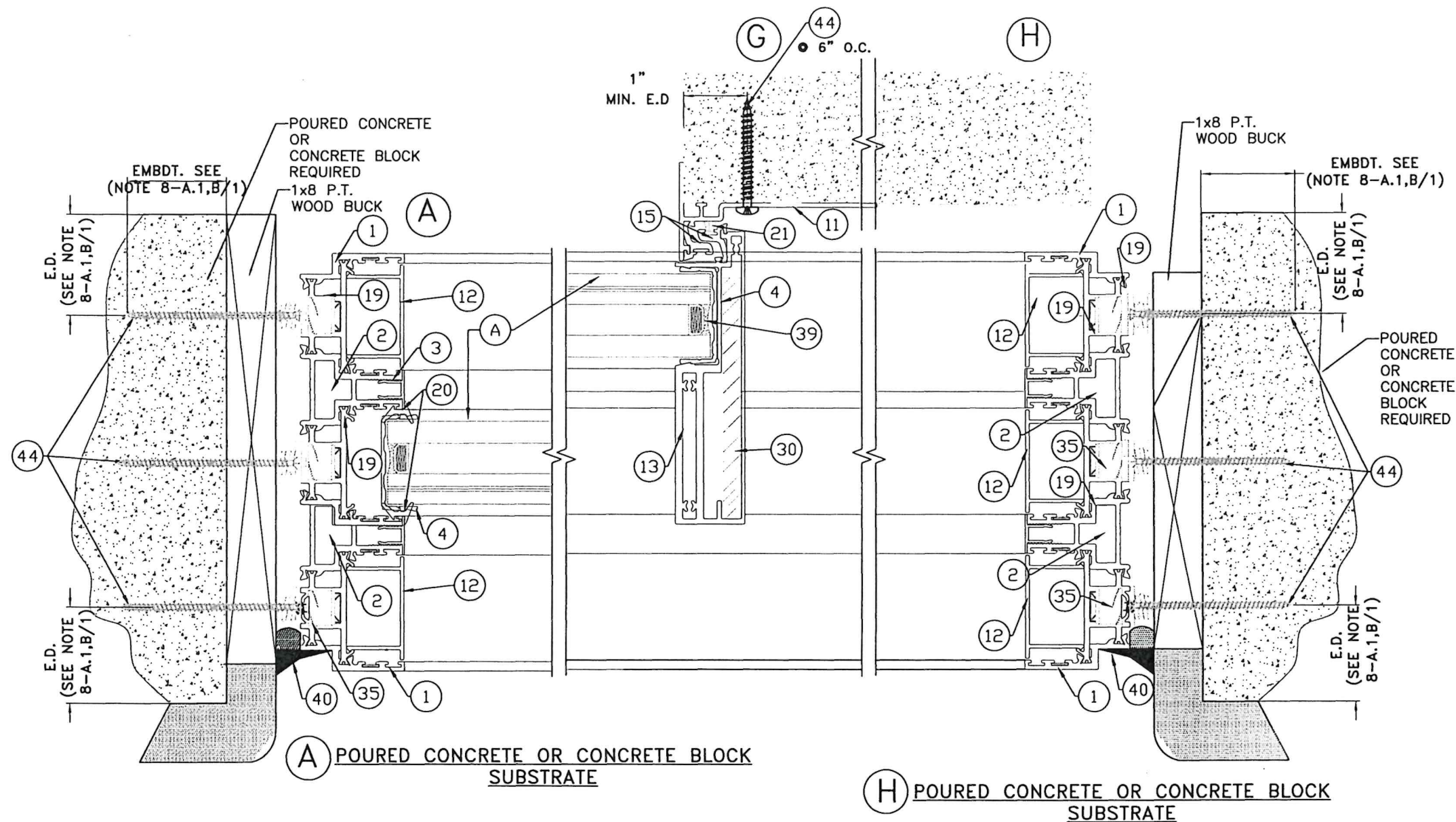
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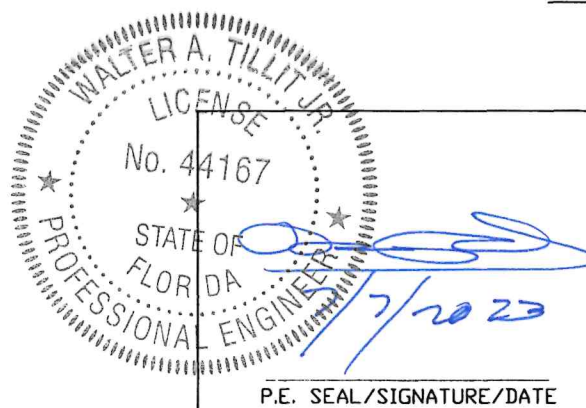
SHEET 20 OF 23



(3 TRACK) HORIZONTAL SECTIONS

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SHEETS 22, 23 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.



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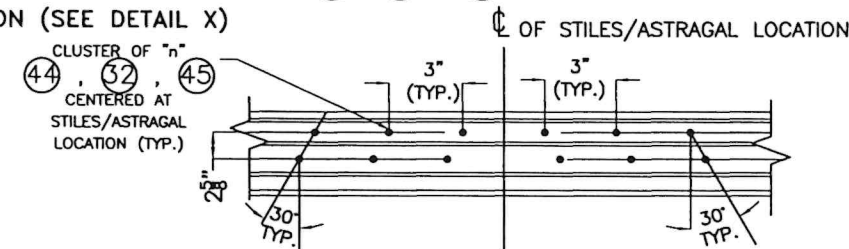
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SHEET 21 OF 23

TABLE 1
NUMBER OF ANCHORS AT CLUSTER $\diamond$ AT HEAD
CONNECTION SCHEDULE FOR A GIVEN ANCHOR TYPE,
SUBSTRATE & MAX. A.S.D. DESIGN PRESSURE RATING

MAXIMUM FRAME HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	HEAD/SILL "n"
9'-1" TO 12'-6" 9'-0" OR LESS	1/4" ϕ TAPCON OR 1/4" ϕ ULTRACON (44)	POURED CONCRETE	+50, -55 psf	12 12
9'-1" TO 12'-6" 9'-0" OR LESS	#14 WOOD SCREW (32)	WOOD	+50, -55 psf	16 12
9'-1" TO 12'-6" 9'-0" OR LESS	1/4"-14 TEK SCREW (45)	ALUMINUM MULLION OR STEEL MEMBER	+50, -55 psf	12 8

$\diamond$ CORRESPONDS TO CLUSTER OF (44), (32) & (45) ANCHORS AT $\diamond$ OF STILES/ASTRAGAL
LOCATION (SEE DETAIL X)



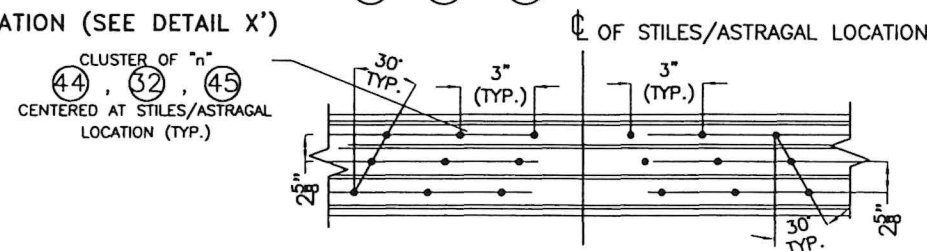
DETAIL X-X
(2 TRACK) HEAD CASE

N.T.S.

TABLE 1A
NUMBER OF ANCHORS AT CLUSTER $\diamond$ AT HEAD
CONNECTION SCHEDULE FOR A GIVEN ANCHOR TYPE,
SUBSTRATE & MAX. A.S.D. DESIGN PRESSURE RATING

MAXIMUM FRAME HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	HEAD/SILL "n"
9'-1" TO 12'-6" 9'-0" OR LESS	1/4" ϕ TAPCON OR 1/4" ϕ ULTRACON (44)	POURED CONCRETE	+50, -55 psf	12 12
9'-1" TO 12'-6" 9'-0" OR LESS	#14 WOOD SCREW (32)	WOOD	+50, -55 psf	18 12
9'-1" TO 12'-6" 9'-0" OR LESS	1/4"-14 TEK SCREW (45)	ALUMINUM MULLION OR STEEL MEMBER	+50, -55 psf	12 12

$\diamond$ CORRESPONDS TO CLUSTER OF (44), (32) & (45) ANCHORS AT $\diamond$ OF STILES/ASTRAGAL
LOCATION (SEE DETAIL X')



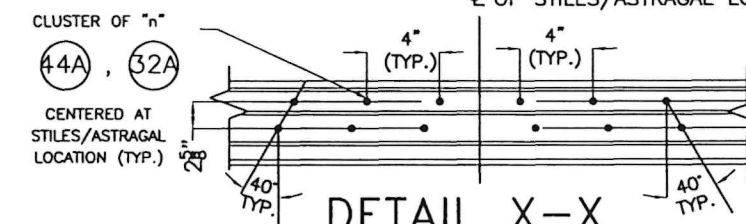
DETAIL X'-X'
(3 TRACK) HEAD CASE

N.T.S.

TABLE 1
NUMBER OF ANCHORS AT CLUSTER $\diamond$ AT SILL
CONNECTION SCHEDULE FOR A GIVEN ANCHOR TYPE,
SUBSTRATE & MAX. A.S.D. DESIGN PRESSURE RATING

MAXIMUM FRAME HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	HEAD/SILL "n"
9'-1" TO 12'-6" 9'-0" OR LESS	1/2" ϕ CONFLX (44A)	POURED CONCRETE	+50, -55 psf	12 8
9'-1" TO 12'-6" 9'-0" OR LESS	#1/2" LAG SCREW (32A)	WOOD	+50, -55 psf	24 16

$\diamond$ CORRESPONDS TO CLUSTER OF (44A) & (32A) ANCHORS AT $\diamond$ OF STILES/ASTRAGAL
LOCATION (SEE DETAIL X)



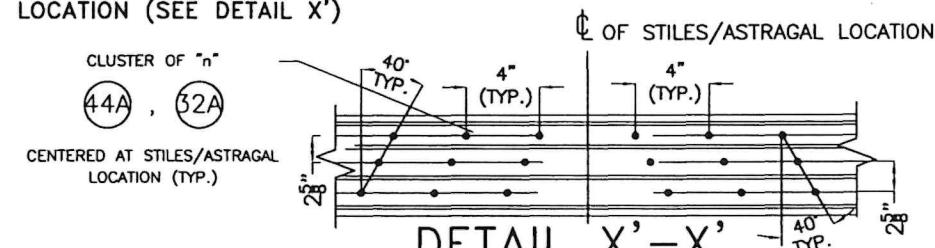
DETAIL X-X
(2 TRACK) SILL CASE

N.T.S.

TABLE 1A
NUMBER OF ANCHORS AT CLUSTER $\diamond$ AT SILL
CONNECTION SCHEDULE FOR A GIVEN ANCHOR TYPE,
SUBSTRATE & MAX. A.S.D. DESIGN PRESSURE RATING

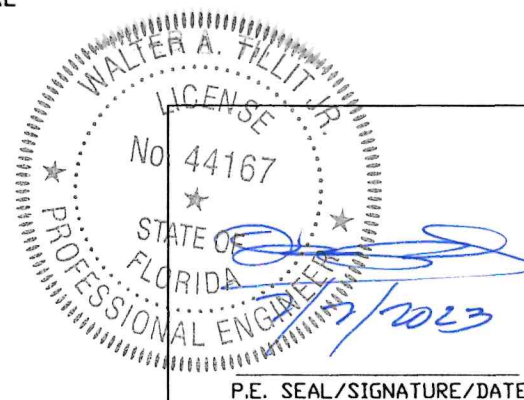
MAXIMUM FRAME HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	HEAD/SILL "n"
9'-1" TO 12'-6" 9'-0" OR LESS	1/2" ϕ CONFLX (44A)	POURED CONCRETE	+50, -55 psf	12 12
9'-1" TO 12'-6" 9'-0" OR LESS	#1/2" LAG SCREW (32A)	WOOD	+50, -55 psf	24 18

$\diamond$ CORRESPONDS TO CLUSTER OF (44A) & (32A) ANCHORS AT $\diamond$ OF STILES/ASTRAGAL
LOCATION (SEE DETAIL X')



DETAIL X'-X'
(3 TRACK) SILL CASE

N.T.S.



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TABLE 2
MAXIMUM ANCHORS SPACING "S" * AT JAMBS
CONNECTION SCHEDULE FOR A GIVEN ANCHOR TYPE,
SUBSTRATE & MAX. A.S.D. DESIGN PRESSURE RATING

MAXIMUM FRAME HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	JAMBS "S" SPACING OR ANCORS
12'-6" OR LESS	1/4"ØTAPCON OR 1/4"Ø ULTRACON (44)	POURED CONCRETE OR CONCRETE BLOCK	+50, -55 psf	15" O.C.
	#14 WOOD SCREW (32)	WOOD	+50, -55 psf	20" O.C.
	1/4-14 TEK SCREW (45)	ALUMINUM MULLION OR STEEL MEMBER	+50, -55 psf	20" O.C.

* CORRESPONDS TO THE SPACING OF TWO STAGGERED ANCHORS (44), (32) & (45)
(SEE DETAIL Y)

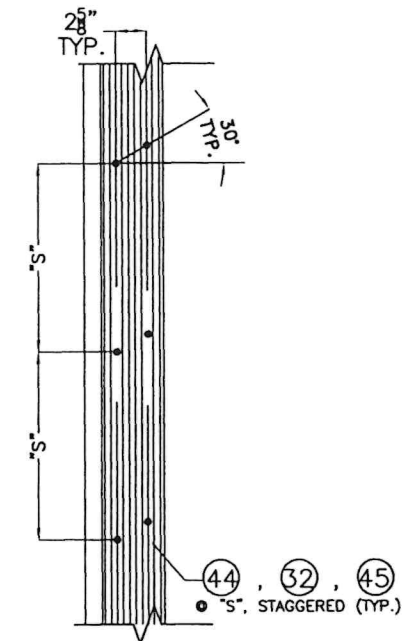
(2 TRACK) JAMB CASE

TABLE 2A
MAXIMUM ANCHORS SPACING "S" * AT JAMBS
CONNECTION SCHEDULE FOR A GIVEN ANCHOR TYPE,
SUBSTRATE & MAX. A.S.D. DESIGN PRESSURE RATING

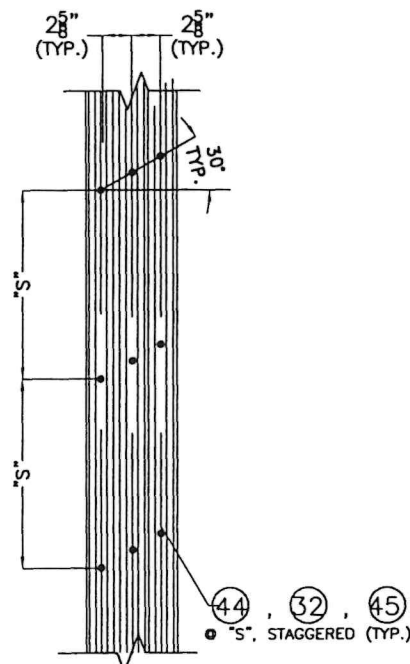
MAXIMUM FRAME HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	JAMBS "S" SPACING OR ANCORS
12'-6" OR LESS	1/4"ØTAPCON OR 1/4"Ø ULTRACON (44)	POURED CONCRETE OR CONCRETE BLOCK	+50, -55 psf	20" O.C.
	#14 WOOD SCREW (32)	WOOD	+50, -55 psf	20" O.C.
	1/4-14 TEK SCREW (45)	ALUMINUM MULLION OR STEEL MEMBER	+50, -55 psf	20" O.C.

* CORRESPONDS TO THE SPACING OF THREE STAGGERED ANCHORS (44), (32) & (45)
(SEE DETAIL Z)

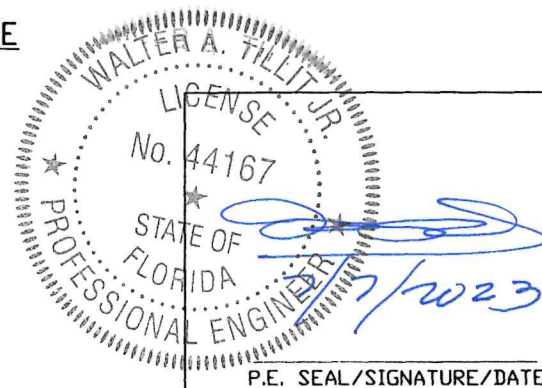
(3 TRACK) JAMB CASE



DETAIL Y-Y
(2 TRACK) JAMB CASE
N.T.S.



DETAIL Z-Z
(3 TRACK) JAMB CASE
N.T.S.



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